PROGRAM SITE INVESTIGATION REPORT IRP SITES NO.1, NO.2, AND NO.3

VOLUME II APPENDICIES A-G

106th CIVIL ENGINEERING FLIGHT NEW YORK AIR NATIONAL GUARD ROSLYN AIR NATIONAL GUARD STATION ROSLYN, NEW YORK

NOVEMBER 1996



Prepared For
ANGRC/CEVR
ANDREWS AFB, MARYLAND

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AIR NATIONAL G NEW YORK, VOL THREE SITES WE PROGRAM! SIT HOLDING AREA FURTHER INVE	CUARD, ROSLYN AIR NAT II - APPENDICES A- CRE FINESTIGATED UNDER E 1- ACCESS ROAD TO NO.1, SITE 3- OLD STICATION IS RECOR	TIONAL GUARD S G OF FOUR R THE INSTALLAT THE AGE SHOP WASTE HULDIN	STATION, ROSLYN, TION RESTORATION SITE 2 - OLD WASTE 14 AREA NO. Z.						
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INSTALLATION RESTORATION PROGRAM SITE INVESTIGATION REPORT IRP SITES NO.1, NO.2, AND NO.3

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NOVEMBER 1996

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DTIC QUALITY INSPECTED 3

Prepared By

Operational Technologies Corporation 4100 N.W. Loop 410, Suite 230 San Antonio, Texas 78229-4253 (210) 731-0000 APPENDIX A

SOIL BORING LOGS

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SECTION A.1 INTRODUCTION

Boring log diagrams have been compiled for each borehole location drilled during this study. Boring diagrams for piezometers and monitoring wells are also included. Diagrams are presented in numerical order. The borehole identification is keyed to the site number and background (BG), piezometer (PZ), or monitoring well designation (MW) (i.e., 01-001MW). The diagrams combine in one page both a verbal and graphical illustration of the lithology encountered during drilling, water level data encountered during drilling and surveyed elevation of the ground surface at the borehole location.

The sample description includes the color, texture, mineralogy, moisture and consistency for each sample collected. The proportions of sand, gravel, and fines are visually estimated and described using the following semi-quantitative adjectives:

Adjective	Estimated Percent of Total Sample
Trace	0 - 5
Few	5 - 10
Little	15 - 25
Some	30 - 45
Mostly	50 - 100

Proportional adjectives precede the lithology, such as little gravel (15 - 25% gravel) and trace of silt (0 - 5% silt).

Lithologic symbols are derived and generalized from the Unified Soil Classification System shown in Figure A.1.

In the boring logs that follow, the column headings have the following meanings:

Depth:	Depth in feet below land surface.
Blows/6 in.:	The number of blow required to drive a split-spoon sampler each of the 6-inch intervals.
Sampled:	The interval of sample cored below land surface.
Percent Recovery:	The percentage of sample recovered in the split-spoon sampler per sampling run.
Field Screening:	The reading of photoionization compounds detected in soil samples by a photoionization detector during initial sampler opening and ATHA, and BTEX and benzene from field GC analysis.

Figure A.1

KEY TO BORING LOG SYMBOLS

	UNIFIED SOIL CLASSIFICATION SYSTEM - ASTM D2487											
	MAJOR DIV	ISIONS		BOL/ PHIC	DESCRIPTIONS							
	GRAVELS	Clean gravels with		0.0000	Well-Graded Gravels, Gravel - Sand Mixtures							
eve)	GRAVELS	little or no fines	GP		Poorly Graded Gravels, Gravels - Sand Mixtures							
SOII	(More than 50% of coarse fraction is	Gravels with over	GM		Silty Gravels, Poorly Graded Gravel- Sand-Clay Mixtures							
COARSE-GRAINED SOILS 50% Smaller Than #200 Sieve)	larger than the #4 sieve size.)	12% fines	GC		Clayey Gravels, Poorly Graded Gravel- Sand-Clay Mixtures							
-GRA	SANDS	Clean sands with	sw		Well-Graded Sands, Gravelly Sands							
ARSE	SAINDS	little or no fines	SP		Poorly Graded Sands, Gravelly Sands							
	(More than 50% of coarse fraction is	Sands with over	SM		Silty Sands, Poorly Graded Sand-Silt Mixtures							
	smaller than the #4 sieve size.)	12% fines	sc		Clayey Sands, Poorly Graded Sand- Clay Mixtures							
ieve)	GY MG AN	ID GLAVG	ML		Inorganic Silts and Very Fine Sands, Silty or Clayey Fine Sands							
SOILS #200 Sieve)	SILTS AN	t less than 50)	CL		Inorganic Clays of Low to Medium Plasticity: Gravelly, Sandy or Silty Clays; Lean Clays							
1 _	(1		OL		Organic Clays and Organic Silty Clays of Low Plasticity							
GRAII ller T	SILTS AN	ID CLAYS	МН	\prod	Inorganic Silts, Micaceous or Diatomacious Fine Sandy or Silty Soils, Elastic Silts							
FINE-GRAINED		greater than 50)	СН		Inorganic Clays of High Plasticity Fat Clays							
F (>50%		·	ОН		Organic Clays of Medium to High Plasticity, Organic Silts							
	HIGHLY ORG	ANIC SOILS	Pt		Peat and Other Highly Organic Soils							

Sample retained for on-site screening.

Sample prepared for laboratory analysis.

Water Table Level

PID Photo-Ionization Detector readings (ppm)

Asphaltic Concrete
Portland Cement Concrete
Cement Grout
Boulders or Bedrock

DRAFT FIGURE A.1 KEY TO BORING LOG Roslyn Air National Guard Station New York Air National Guard Roslyn, New York OPERATIONAL TECHNOLOGIES CORPORATION

P\KEYLOG2

1994

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PTECH OPERATIONAL TECHNOLOGIES C O R P O R A T I O N

LOG OF BORING 01-001

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

9/20/93

Sampling Method:

California Style Sampler

Depth Drilled:

11.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

204.14 ft.

Drilling Method: Hollow-Stem Auger Open column	PID	ELD SC	REENI	NG
Staphic Staphic DESCRIPTION OF MATERIALS Output Description of Materials Description of Materials		A 7777 A	T	
■ rr dar do do dr dar d		ATHA	BTEX	Benzene
	(ppm)	(ppm)	(ppb)	(ppb)
7 100 Asphalt Cover	2.1	1.5	ND	ND
Sand, silt, gravel (fill) Light brown silty sand	/			
Light brown silty sand.				
Brown/tan sand, trace gravel				
5 — 22 90	0.0	0.5	ND	ND
34				
33				
10 g 90 Brown gravelly sand, trace	7.3	6.8	169.9	ND
silt and cobbles.	7.5	0.0	105.5	1.2
37				
Boring Terminated at 11.5				

PTEC OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-002

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

Drilling Method: Hollow-Stem Auger

4/7/94

Sampling Method:

California Style Sampler

Depth Drilled:

13.00 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

203.23 ft.

ft.)	99	'ery			tem Auger	FI	ELD SO	REENI	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
-	15 12 17	90	X		Asphalt Cover Sand, silt, gravel (fill)	0.0	0.0	ND	ND
5	_ 2	80							
	3 9 13	80			Brown silty sand with trace of gravel.	0.0	0.0	ND	ND
_					Brown gravelly sand, trace of silt.				
10 —	26 37 43	70				0.0	0.0	ND	ND
_	25 27 25	90			Brown gravelly sand, trace of silt.	0.0	0.0	ND	ND
					Boring Terminated at 13.0 ft.				
			!						

PTEC OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-003

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

9/21/93

Drilling Method: Hollow-Stem Auger

Sampling Method:

California Style Sampler

Depth Drilled:

13.00 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

202.05 ft.

10111	ung M	cinou.	<u>I.</u>	10110М-2	tem Auger				
(ft.)	9/	very	les	hic		F	ELD SC	REENI	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID	АТНА	BTEX	Benzene
						(ppm)	(ppm)	(ppb)	(ppb)
	19 20	70	X		Asphalt Cover	8.5	7.5	ND	ND
-	15				Sand, silt, gravel with	_			
ł					wood fragments (fill)				
i –									
-									
_									
5 –	- 1	0	H						
	1	J	V			-	-	-	-
-	1	ĺ	$ \Lambda $						
	P	90		XXXXX	Gray sandy silt with	_ 155	2.5	275	,,,
	P				some gravel	15.5	3.5	ND	ND
	2				3				ĺ
_									f
10	12	80	\		Brown silt and silty sand	5.3	3.2	ND	ND
	15		Y		with some gravel.		5.2	עאז	עאו
	17		/\[j
	20	80	X		Brown silt and silty sand	-	_	_	
	18				with some gravel.				
	16								İ
				X/X/V/V/	Boring Terminated at 13.0 ft.	-			
					e.				

PTEC

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-004

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

9/21/93

Sampling Method:

California Style Samplers

Depth Drilled:

11.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

202.45 ft.

Drilli	rilling Method: Hollow-Stem Auger										
•	=	ïry	25	را			FI	ELD SC	REENII	NG	
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS		PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	
	15	0			Asphalt Cover		-	-	-	-	
	28		$ \chi $		Sand, silt, gravel, cobble wit	h .					
	20		\mathbb{N}		charcoal (fill).						
	11	70	X				6.8	3.5	62.3	35.7	
	28 29										
	29				Sand, silt, gravel with wood	and					
					charcoal fragments (fill).	ana					
5 –	1	50	X				7.9	-	ND	ND	
	3										
	5										
_					Light brown sand, trace of si	lt .					
					and gravel.						
10	_							40.0	0.7	7770	
10 -	16	70	X				4.0	10.3	2.7	ND	
	30 40										
					Boring Terminated at 11.5 ft						
-					Doing Tommatou at 11.0 it	•					
_											
					si-						

PTECH OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 02-001

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

9/21/93

Depth Drilled:

California Style Sampler

Sampling Method:

13.00 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

202.41 ft.

Drill	ing M	ethod	: E	Iollow-S	tem Auger	Surface Dievation.	 .41 11.					
(ft.)	9/	very	es	lic			FIELD SCREENING					
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION O	F MATERIALS	PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene		
	5 6 6	80			Asphalt Cover Sand, silt, gravel (fill) Brown gravelly sand with trace of silt.		0.0	0.0	11.3	ND		
	18 28 24	80					0.0	0.0	ND	ND		
10	82	0					-	-	-	-		
	24 22 20	80			Brown gravelly sand with trace of silt and cobbles Boring Terminated at 13.0 ft.		0.0	0.0	4.6	ND		
_					s-							

OPERATIONAL TECHNOLOGIES

CORPORATION

LOG OF BORING 02-002

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Driller:

Robert Rogers

Date Drilled:

Soil Mechanics Drilling Co.

9/21/93

Sampling Method: Depth Drilled:

California Style Sampler

13.00 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

203.61 ft.

Drilli	ing Me	thod:	H	ollow-S	tem Auger				
÷	_	ry				FI	ELD SC	REENI	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID	АТНА	втех	Benzene
)ept	Blov	, Re	San	Gra			(ppm)	(ppb)	(ppb)
						(ppm)			
	4	80	\boxtimes		Asphalt Cover	134.0	813.0	10,734	ND
	5 5				Sand, silt, gravel (fill)				
	3								
-					Brown sandy silt with	1			
					a trace of gravel.				
					4 14400 01 g-11 01				
5	 13	70				0.0	0.0	ND	ND
	14								
	13								
					Brown silty sand with a				
					trace of gravel.				
10 -						0.0	0.0	NID	ND
10	— ₁₉	70	\mathbb{N}			0.0	0.0	ND	עא
	19 16		X						
	13	70			Brown silty sand with a	-	_	_	_
	14	,0	X		trace of gravel.				
	13								
				7.1.1.1	Boring Terminated at 13.0 ft.	-			
					<i>s</i> -				
<u></u>			ļ., —				<u> </u>	<u> </u>	

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 02-003

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

4/7/94

Dahant Dagana

Date Measured: Surface Elevation:

Sampling Method:

Depth Drilled:

California Style Sampler

11.50 ft.

Not Encountered

Depth To Water: Not I Date Measured: N/A

204.24 ft.

	ing Me			ollow-St	tem Auger	Surface Elevation.	204.	44 II.			
					0			FI	ELD SC	REENII	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION O	DESCRIPTION OF MATERIALS		PID	АТНА	BTEX	Benzene
Dep	Blo	% R	Sa	Gr				(ppm)	(ppm)	(ppb)	(ppb)
					Asphalt Cover		/				
_	5 4	70	X		Sand, silt, gravel, charcoal fi	ragments		0.0	0.0	ND	ND
	5										
_											
_											
5 —	- 6	60	X		Brown silty sand, trace of grand cobbles. (fill?)	avel		1.7	3.3	ND	ND
_	7				and coopies. (im.)						
_					Brown to black silty sand and	1					
					sand with trace gravel and cla						
_											
-											
10 —	_ ₁₉	80						1.6	2.5	5.3	ND
	24	80	X					1.0	2.3	3.3	ND
	19				Boring Terminated at 11.5 ft						
					Boring Terminated at 11.5 It						
-					ع						

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 02-004

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

OpTech

Driller:

Jerry Arriaga

Date Drilled:

9/23/94

Sampling Method:

California Style Sampler

Depth Drilled:

5.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

204.18 ft.

Drilli	ng Me	ethod:	H	and Au	ger					
] ;	#.	ery	Ç2	၂			FI	ELD SC	REENI	NG
Depth (ft.)	Blows/6"	ecov	Samples	Graphic	DESCRIPTION OF M	MATERIALS	PID	АТНА	BTEX	Benzene
Dep	Blo	% Recovery	Sal	Gr			(ppm)	(ppm)	(ppb)	(ppb)
5 -		90			Sand, silt, gravel (fill) Sand, silt, gravel with some cob Boring Terminated at 5.5 ft.	bles.	251	_	10,296	ND

PTECH OPERATIONAL TECHNOLOGIES C O R P O R A T I O N

LOG OF BORING 02-005

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

OpTech

Driller:

Jerry Arriaga

Date Drilled:

9/23/94

Sampling Method:

California Style Sampler

Depth Drilled:

5.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

204.79 ft.

Drilling Method:	Hand Au	ger	Surface Elevation.	204./7 II.			
		501		FI	ELD SC	REENII	NG
Depth (ft.) Blows/6" % Recovery	Samples Graphic	DESCRIPTION OF MATERIALS Sand, silt, gravel with charcoal fragments (fill)		PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
5 — 100 — — — — — — — — — — — — — — — — — — —		Sandy silt and clay, moist an cohesive. Boring Terminated at 5.5 ft.		457	-	5,045	ND 276.6

\mathbf{E} OPERATIONAL TECHNOLOGIES C O R P O R A T I O N

LOG OF BORING 02-006

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

OpTech

Driller:

Date Drilled:

9/23/94

Jerry Arriaga

Drilling Method: Hand Auger

Sampling Method:

California Style Sampler

Depth Drilled:

5.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

203.29 ft.

1	1	tetnoa:	-	land Au	ger				
(ft.)	9/	very	les	ic		F	ELD SO	CREENI	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID	АТНА	BTEX	Benzene
		80			Card all 1 (CII)	(ppm)	(ppm)	1	(ppb)
5		80			Dark brown silty sand and sand with gravel. Boring Terminated at 5.5 ft.	2.3		33.3	ND

OPTEC OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 02-007

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

OpTech

Driller:

Jerry Arriaga

Date Drilled:

9/23/94

Sampling Method:

California Style Sampler

Depth Drilled:

Depth To Water:

5.50 ft. Not Encountered

Date Measured:

N/A

Surface Elevation:

204,77 ft.

Drilli	ing M	ethod:	_E	land Au	ger	Surface Elevation:	204.77 ft.			
(ft.)	"9/	very	les	ıjc			F	ELD S	CREENI	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION O	F MATERIALS	PID (ppm)	ATHA (ppm)		Benzene
5		80			Sand, silt, gravel (fill) some charcoal fragments Brown silty sand with gravel. Boring Terminated at 5.5 ft.		6.5		21.5	2.1

PTECH **OPERATIONAL TECHNOLOGIES** CORPORATION

LOG OF BORING 02-008

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

OpTech

Driller:

Date Drilled:

Jerry Arriaga

9/23/94

Sampling Method:

California Style Sampler

Depth Drilled:

5.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

204.67 ft.

Drilli	ing Me	thod:	Н	land Aug	ger					
t.)		ery	Si	၁			FI	ELD SC	REENII	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF	MATERIALS	PID	АТНА	BTEX	Benzene
Dep	BIG	% R	Sa	G			(ppm)	(ppm)	(ppb)	(ppb)
5 —		80			Brown silty sand with gravel Boring Terminated at 5.5 ft.	I fragment (fill)	48	-	21.1	0.9

PTECH OPERATIONAL TECHNOLOGIES C O R P O R A T I O N

LOG OF BORING 03-001

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

Drilling Method: Hollow-Stem Auger

9/20/93

Sampling Method:

California Style Sampler

Depth Drilled:

11.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

202.67 ft.

Drilli	ing Me	thod:	H	ollow-St	tem Auger				
t.)	#. 5	ery	S	ည		FI	ELD SC	REENII	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID	АТНА	BTEX	Benzene
Del	Bl	% R	Sa	Ğ		(ppm)	(ppm)	(ppb)	(ppb)
5 —	16 24 16 16 10 15 15	80 88 88		G	Asphalt Cover Sand, silt, gravel (fill) Light brown silty sand and gravel. Light brown sand with some gravel and trace of silt.	(ppm) 1.2	(ppm) 9.5 4.1	(ppb) 17.1 3.4	ND ND
					Boring Terminated at 11.5 ft.				

PTEC OPERATIONAL TECHNOLOGIES C O R P O R A T I O N

LOG OF BORING 03-002

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

Drilling Method: Hollow-Stem Auger

9/20/93

Sampling Method:

California Style Sampler

Depth Drilled:

11.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

201.98 ft.

(j)	9	rery	es	ic		FI	ELD S	CREENI	NING	
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID (ppm)	ATHA (ppm)		Benzene	
-	15 9 15	80			Asphalt Cover Sand, silt, gravel (fill)	0.4	5.3	3.2	ND	
5	3 5 4	90			Gray silty sand, with some gravel. Brown sand to silty sand with trace of gravel and clay.	0.4	5.1	ND	ND	
10	16 19 15	80			Boring Terminated at 11.5 ft.	0.3	3.1	3.3	ND	

E C H

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 03-003

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

9/20/93

Sampling Method:

California Style Sampler

Depth Drilled:

13.00 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

202.44 ft.

Drilling Method: Hollow-Stem Auger

ft.)	9	ery			Tuger	FIELD SCREENING				
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID	АТНА	втех	Benzene	
De		-	S	9		(ppm)	(ppm)	(ppb)	(ppb)	
-	8 9 9	80			Asphalt Cover Sand, silt, gravel (fill)	4.2	6.3	ND	ND	
5 —	- ₃ 5 4	80			Sand, silt, and gravel with wood fragments (fill). Brown medium sand with some silt,	2.9	5.7	5.4	ND	
10	17 28 29	80			gravel, and angular cobbles.	5.9	6.8	ND	ND	
	27 27 26	90			Brown medium sand with some silt, gravel, and angular cobbles. Boring Terminated at 13.0 ft.	4.8	-	ND	ND	
				i	±.					

PTECH **OPERATIONAL TECHNOLOGIES** CORPORATION

LOG OF BORING 03-004

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.: Driller:

Soil Mechanics Drilling Co.

Date Drilled:

9/20/93

Robert Rogers

Drilling Method: Hollow-Stem Auger

Sampling Method:

California Style Sampler

Depth Drilled:

13.00 ft.

Depth To Water:

Not Encountered

Date Measured: Surface Elevation: N/A

202.69 ft.

	ing Me				tem Auger	FIELD SCREENING			NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	14 14 10 5 4 3	70 80			Asphalt Cover Sand, silt, and gravel (fill)	24.6	42.6	17.4	ND
5 -	18 25 27	80			Gravelly silty sand and sand with some silt and gravel. Sand, silt, and gravel with medium to fine sand and some cobbles.	6.4	10.7	ND	ND
10 —	14 15 12	90				3.6	21.6	4.1	ND ND
_					Boring Terminated at 13.0 ft.				

TEC OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 03-005

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

4/7/94

Drilling Method

Depth Drilled:

California Style Sampler

13.00 ft.

Depth To Water:

Sampling Method:

Not Encountered

Date Measured:

N/A

Surface Elevation:

202.30 ft.

Dril	ling M	Iethod	l:	Hollow-S	tem Auger					
(i)	9/	very	30	ic S			F	ELD S	CREENI	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF	F MATERIALS	PID (ppm)	ATHA (ppm)		Benzene
-	7 10 14	80	×		Asphalt Cover Sand, silt, and gravel (fill)		0.0	0.0	ND	ND
5	3 6 7	80			Light brown sand, silty sand w some gravel and little clay.	ith	0.5	0.0	ND	ND
10	15 21 14 9 11 10	80			Light brown, sand, silty sand w	ith gravel.	0.0	0.0	ND ND	ND ND
					Boring Terminated at 13.0 ft.					

PTECH **OPERATIONAL TECHNOLOGIES**

CORPORATION

LOG OF BORING 03-006

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

9/20/93

Sampling Method:

California Style Sampler

Depth Drilled:

11.50 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

201.80 ft.

Drilling Method: Hollow-Stem Auger									
$\overline{}$	_	Ę.				FI	ELD SC	REENI	NG
h (ft	Blows/6"	cove	Samples	Graphic	DESCRIPTION OF MATERIALS	PID	АТНА	BTEX	Benzene
Depth (ft.)	Blov	% Recovery	San	Gra		(ppm)	(ppm)	(ppb)	(ppb)
		_						ND	59.0
	11 9	80	X		Asphalt Cover	6.7	50.5	ND	39.0
	8				Sand, silt, gravel (fill)				
	Ů								
-									
					Light brown fine to medium sand, silty				
5 —	_				sand, and some gravel.	1.0		NID	NID
	3	90	X			1.3	6.3	ND	ND
	3								
-									
_									
10 -		80			Light brown sand, fine sand and silty	2.7	3.4	ND	ND
	29	80	X		sand with gravel.	2.7	3.4	112	1,2
	27								
					Boring Terminated at 11.5 ft.	-			
	!								
-									
					g-				
		<u> </u>				<u> </u>	<u> </u>		1

OPERATIONAL TECHNOLOGIES

CORPORATION

LOG OF BORING BG-001

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Soil Mechanics Drilling Co.

Driller:

Robert Rogers

Date Drilled:

4/7/94

Sampling Method: Depth Drilled:

California Style Sampler

11.5 ft.

Depth To Water:

Not Encountered

Date Measured:

N/A

Surface Elevation:

204.40 ft.

Dr	Drilling Method: Hollow-St			Hollow-S	tem Auger		207.70 IL.			
ff.	9	very	30	ji ji			FI	ELD SO	REENI	NG
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION O	F MATERIALS	PID	АТНА	BTEX	Benzene
		8					(ppm)	(ppm)	(ppb)	(ppb)
	2 2 4	80	×		Sand, silt, and gravel, trace of	of clay	0	0	ND	ND
-			-		Light brown sand, silty sand y	_{zv} ith				
5 -	8 11 16	80	X		Light brown sand, silty sand v some gravel and little clay.	, Tul	0	0	ND	ND
-										
10 -	11 12 9	70	X		Light brown, sand, silty sand	-	0	0	ND	ND
_					Boring Terminate	ed at 11.5 ft.				

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\mathbf{E} OPERATIONAL TECHNOLOGIES C O R P O R A T I O N

				LOG OF BORD	NG 01-001MW	•				
Project No Logged By Drilling Co Driller: Date Drille Drilling Mo	: o.: ed:	E W Jo 2/	ohn Barı /06/94	sources, Inc.	Sampling Method Depth Drilled: Depth To Water: Date Measured: Surface Elevation: TOC Elevation:	155.67 ft. r: 142.24 ft. : 5/13/94 on: 204.38 ft.				
Depth (ft.) Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF M	ATERIALS	PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	Monitoring Well
5				Sandy fill material. Sand an gravel with some fill materia Sand. Medium to fine sand, silt and gravel. Silty sand and gravel. Mostly gravel and rock fraggrands Some fine sand. Medium sand with fine sand with fine sand. Mostly gravel and rock fragments an with fine sand. Mostly gravel and rock fragments an with fine sand. Sand, silt, gravel and minor Silty sand. Sand, silt, and cowith well rounded gravel.	ments. and gravel. d gravel ments.					

TEC OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-001MW

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Water Resources, Inc.

Driller:

John Barnes

Date Drilled: Drilling Method:

2/06/94

O-DEX

Sampling Method:

Surface Return 155.67 ft.

Depth Drilled:

Depth To Water:

142.24 ft.

Date Measured:

5/13/94

Surface Elevation: TOC Elevation:

204.38 ft. 204.02 ft.

F			1	Т		TOC Elevation:		4.02 It.			
İ	ft.)	9	'ery	es	ာ့		FI	ELD SC	REENI	NG	og u
1	Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	PID	АТНА	BTEX	Benzene	Monitoring Well
ı	Dep	B	% R	Sa	5		(nnm)	(nnm)			10ni W
ŀ				\vdash	 .	Y/o	(ppm)	(ppm)	(ppb)	(ppb)	_ ~
İ	\exists					Very coarse sand and gravel with rock fragments.					
	90 🗄	_				_					
1.	95 🗏	_				Medium to fine sand and gravel.					
10	00]	_									
10)5 🕇	_									
				ŀ		Medium to fine sand, gravel, and rock fragments.					
11	10 🖶	_				room ragnons.					
11	<u>, </u>	_									
	" =										
12	10 🕂	-								<u> </u>	
12	<u>, </u>										
12	<i>3</i> ∏					Fine to medium sand, gravel, silty and few rock fragments.					
13	0 井	-				sity and few fock fragments.					
12	_ =					Medium sand and gravel.				224	
13	٦ 🗐					_					
14	0 🕂	-								Ė	
	_ =									į.	
14.	·]									[
150	o <u>‡</u>	.				Medium sand. Some fine sand and gravel.					
	_ = =					victium said. Some tine sand and gravel.					
15:	7			F		Boring Terminated at 155.67 ft.				<u> </u>	
160) <u>‡</u>									<u> </u>	
	\dashv									-	1
165	計					٠.				<u> </u>	

TECH **OPERATIONAL TECHNOLOGIES** CORPORATION

LOG OF BORING 02-001MW

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Water Resources, Inc.

Driller:

John Barnes

Date Drilled:

5/11/94

Sampling Method:

Surface Return

Depth Drilled:

155.00 ft.

Depth To Water:

141.56 ft.

Date Measured: **Surface Elevation:** 5/13/94

	Drille			/11/94		Surface Elevatio		3.66 ft.				
	mg M			D-DEX		TOC Elevation:	1	3.22 ft.				
Depth (ft.)	Blows/6"	% Recovery	Samples	uples	Graphic	DESCRIPTION OF MATERIALS		PID	ELD SC ATHA	REENII BTEX	T	Monitoring Well
Dep	Blo	% Re	Sar	5	Name and the same					Benzene (nnh)	Monit	
10 = 15 = 20 = 25 = 30 = 35 = 40 = 45 = 50 = 55 = 60 = 70 = 75 = 80 = 80 = 80 = 80 = 80 = 80 = 80 = 8					Unsorted fill material and road poorly sorted sand, silt, gravel, and angular fragments. Sandy gravel and rock fragments sand. Medium to fine sand and gravel with larger rock fragments. Sand, silt, and gravel. Fine to medium sand, gravel, as fragments. Sand, silt and larger gravel. Fe fragments. Sand, silt and larger gravel with clay.	nts with coarse 1. er gravel and nd rock w rock	(ppm)	(ppm)	(ppb)	(ppb)		

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 02-001MW

Project No.: 1315-143 Sampling Method: Surface Return Logged By: Earl Parker Depth Drilled: 155.00 ft. Drilling Co.: Water Resources, Inc. Depth To Water: 141.56 ft. Driller: John Barnes Date Measured: 5/13/94

	ate Dr			5/11/94		Surface Elevation		03.66 ft.			·	
D	rilling	Method	: (D-DEX		TOC Elevation	1)3.22 ft.	- No 1			
1 2	} E	o" 'ery	Sa	ic					FIELD SCREENING			
Denth (ft.)		blows/o" % Recovery	Samples	Graphic	DESCRIPTION OF MA	DESCRIPTION OF MATERIALS		АТНА	BTEX	Benzene	Monitoring Well	
_		%					(ppm)	(ppm)	(ppb)	(ppb)	Me	
					Fine to medium sand and grav	vel.						
90	+			V 1 V 1	Fine to medium sand, gravel	and rock	-					
95	1				fragments.							
33				. 1 . 1								
100	=			•.•.	Fine to medium sand, silt, and	l some gravel	-					
105					and to make the party and	some graver.						
103	\exists				Fine to medium sand, gravel, fragments.	and rock						
110	+			::::	magmonts.							
115	1											
113					Medium sand, silt, and gravel	•						
120	+											
125	1											
123												
130	+											
135	1									87.8		
133					Medium to fine sand and grave	el.						
140										<u>-</u>	-	
145	1									1		
										<u>.</u>		
1 5 0										<u> -</u> -		
155					Silty sand and clay.							
155					Boring Terminated at 155.0 ft.					E		
160	-									-	-	
165										<u> -</u> -		
100					E-						-	
										<u> </u>		

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF WELL 03-001MW

Proje	ct N	lo.:	1315-143	Carrall Maria					
	ogged By:		Earl Parker	Sampling Method: Depth Drilled:			face Return		
Drilli			Water Resources, Inc.			153.00 ft			
	Driller:		John Barnes	Date Measure			2.63 ft.		
Date 1	Dril	led:	9/10/94	Surface Eleva		5/13/94			
Drillin	ng N	lethod:	O-DEX	TOC Elevation			.53 ft.		
				100 Elevation	1	201	.22 ft.		
Depth (ft.)	Samples	Graphics	DESCRIPTION OF MATERI		Monitor Well		CONSTRUCTION DETAIL		
5			Blacktop and road base material to VPS sand gravel.	and, silt,	E		Flush Mount Steel Vault Box		
			Sand, silt, and gravel.			S			
10	-		· ·		FM				
	:				FØ				
15					EØ				
<u> </u>					E 🕅 I	S			
20 =	[:								
25 =									
						X			
30			Fine to medium sand and gravel.						
\exists					∃ 🔯 🖁		Bentonite Grout		
35		1.1.	Rock fragments, gravel, and fine sand bec	oming					
40		***	medium sand, gravel.	oming			İ		
~ ∃		1.1.							
45							,		
\exists									
50			Medium sand, silt, and gravel						
55			,, 8						
60									
60						//	in. Sch 40 PVC		
65				<u> </u>		F	Flush Thread Riser		
70									
75		N	Medium to fine sand and gravel.						
80 =			and graver.						
\exists							1		
	<u>. 6 -</u>	1.1.				X			

OPTECH OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF WELL 03-001MW

			LOG OF WEI		YY				
Proje			1315-143	Sampling Met	hod: S	Surface Return			
Logge			Earl Parker	Depth Drilled		153.00 ft			
Drilli	_).:	Water Resources, Inc.	Depth To Wa		139.63 ft.			
Drille			John Barnes	Date Measure		5/13/94			
Date 1			9/10/94	Surface Eleva		201.53 ft.			
Drillin	ig Me	ethod:	O-DEX	TOC Elevation		201.22 ft.			
Depth (ft.)	Samples	Graphics	DESCRIPTION OF MATERI		Monitori Well	construction detail			
		1.1.	Medium to fine sand, gravel and rock fra	gments.	EMI				
90 -	•		Gravelly sand and rock fragments.			Bentonite Grout			
100 = 105 = 1			Sand, silt, and gravel. Medium sand with fine sand and gravel.						
110 =			with the sand and gravel.						
120 = 125 = 130 =						Bentonite Pellet Seal			
135						#2 Washed Gravel Sand Pack			
140			Medium sand, fine sand and gravel.			Depth To Water at 139.63 ft.			
150						4in. Sch 40 PVC Flush Thread Screen, 0.010 in. Slotted			
			Boring Terminated at 153.0 ft.		- [Well Terminated at 153.0 ft.			
			عد						

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING PS1

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Water Resources, Inc.

Driller:

John Barnes

Date Drilled:

4/19/94

Sampling Method:

Surface Return

Depth Drilled:

160.00 ft.

Depth To Water:

141.65 ft.

Date Measured:

4/29/94

Surface Elevation:

201.92 ft.

Dril	ling Method: O-DEX TOC Elevation: NA										
Ţ.	2,,	ery	Si	၁				ELD SC	REENI	NG	gı
Depth (ft.)	Blows/6"	Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS		PID	АТНА	BTEX	Benzene	Monitoring Well
P	BI	1 %	Š	S			(ppm)	(ppm)	(ppb)	(ppb)	Mon V
5 = 10 = 15 = 20 = 1					Sand and gravel. Silty sand we gravel. (fill) Clay, silty clay with fine to me Few gravel. Clayey silt and fine sand with	edium sand.					
25 = 30 = 35 = 40 = =	-				Silty sand, some medium sand Intervals of clayey silt. Silty clay to sandy silty clay.	with gravel.					-
45 = 50 = 55 = 60 = 60 = 65	-				Fine sand and silt with small re	ounded gravel.					-
70					Silty fine sand. Silt and sand we will sand with increasing refragments. More gravel.						

\mathbf{E}_{-} **OPERATIONAL TECHNOLOGIES**

CORPORATION

LOG OF BORING PS1

Project No.:

1315-143

Logged By:

Earl Parker

Drilling Co.:

Water Resources, Inc.

Driller:

John Barnes

Date Drilled:

4/19/94

Sampling Method:

Surface Return

Depth Drilled:

160.00 ft.

Depth To Water:

141.65 ft.

Date Measured:

4/29/94

Surface Elevation:

201.92 ft.

Drillin	ig Met	hod:	0	-DEX		TOC Elevation:	N.	A				
£	2,	ery	S	ဍ				FIELD SCREENING				
Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MA	ATERIALS	PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	Monitoring Well	
90 95 100 105 110 115 120 125 130 140 145 150 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 16					Sand to silty sand with well room. Course sand and gravel. Som fine sand. Sand. Medium to fine sand wand rock fragments. Fine sand, silt, and clay. To not coarse sand and gravel. Sand and gravel. Medium sand gravel. Boring Terminated at 160.00 ft	ith silt, gravel, nedium and						

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF WELL PS2

Proje	ct No.:	1315-143	S L M.		
•	ed By:	Earl Parker	Sampling Meth		face Return
	ng Co.:	Water Resources, Inc.	Depth Drilled: Depth To Wate		0.00 ft.
Drille		John Barnes Date Measured			.20 ft.
Date 1	Drilled:	4/22/94	,	3/94	
	ng Method:	O-DEX		.01 ft.	
			TOC Elevation	: 205	.75 ft.
Depth (ft.)	Samples Graphics	DESCRIPTION OF MATER	IALS	Monitoring Well	CONSTRUCTION DETAIL
5 —		Medium sand with small gravel, black co (fill).	oal grains		Flush Mount Steel Vault Box
		Sand, silt and gravel.			
10					
1.5	5 5 5		ļ		
15 =			Ē		
20 =			ļ.		
			F	- M M	
25					
30	.				
30 =			F		Bentonite Grout
35					1
40		Silty sand, gravel and rock fragments.			
45	5				j
	-				
50		Medium to fine sand with gravel.			
=					
55					
60 =		Silt, sandy silt and clay.			N. 61.40 T.
65		, and the stage		1021 1021	2in. Sch 40 PVC Flush Thread Riser
70	1	Fine to medium cond and all the late			
75		Fine to medium sand and silt with gravel.			
<u> </u>			E		
80 =		ž-		- 👸 👹	
				Y/A Y/A	

OPTECH

OPERATIONAL TECHNOLOGIES C O R P O R A T I O N

		LOG OF V	WELL PS2		
Project Logged Drilling Driller: Date Dr Drilling	By: Co.: illed: Method:		Sampling Meth Depth Drilled: Depth To Wat Date Measured Surface Elevat TOC Elevation	10er: 14 l: 4/ ion: 20	urface Return 60.00 ft. 44.20 ft. /23/94 06.01 ft. 05.75 ft.
Dept	Graj	DESCRIPTION OF MATER	IALS	Well	CONSTRUCTION DETAIL
90 = 95 = 100 = 105 = 110 = 115 = 120 = 135 = 140 = 155 = 150 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 160 = 155 = 155 = 160 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 155 = 15		Medium to coarse sand and silt with gravand rock fragments. Sand and gravel. Sand, medium to fine sand and gravel. Well Terminated at 160.0 ft.	el		Bentonite Grout Bentonite Pellet Seal Depth To Water at 144.20 ft. #2 Washed Gravel Sand Pack 2in. Sch 40 PVC Flush Thread Screen, 0.010 in. Slotted Well Terminated at 160.0 ft.

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF WELL PS3

				VELL 155				
Projec			1315-143	Sampling Metho	od:			face Return
Logge	-		Earl Parker	Depth Drilled:				05 ft.
Drillin	_	0.:	Water Resources, Inc. Depth To Water					25 ft.
Driller			John Barnes Date Measure				4/23	
Date I			4/26/94 Surface Elevat					42 ft.
Drillin	ig M	lethod:	: O-DEX TOC Elevation				403.	10 ft.
Depth (ft.)	Samples	Graphics	DESCRIPTION OF MATER	IALS	1	onitor Well	-	CONSTRUCTION DETAIL
		. 1 . 1 .	Gravel, cobbles, and rock fragments.		=			Flush Mount Steel Vault Box
5 = 10 = 15 = 20 = 20			Sand, silt, gravel and rock fragments.					
15 =					Ē			
20 =	ŀ		Sand, silt, and gravel.					
25 =					E			
25 = 30 = =			Coarse sand and gravel. Gravel and rock	fragments.	E			Bentonite Grout
35 =								
35 — 40 — 45 —								
45 =								
50 =				·				
55 =			Sand and gravel. Rock fragments.					
60 =								2in. Sch 40 PVC
65 =								Flush Thread Riser
70 =			Fine sand, silt, and clayey silt with some	gravel.	E			
75 -					E			
80 =			-يـ					

PTECH OPERATIONAL TECHNOLOGIES CORPORATION

	LOG OF V	WELL PS3		
Project No.: Logged By: Drilling Co.: Driller: Date Drilled: Drilling Method:	1315-143 Earl Parker Water Resources, Inc. John Barnes 4/26/94 O-DEX Sampling Metho Depth Drilled: Depth To Wate Surface Elevation:			face Return .05 ft25 ft. 3/94 .42 ft10 ft.
Depth (ft.) Samples Graphics	DESCRIPTION OF MATER	IIALS	Monitoring Well	CONSTRUCTION DETAIL
90	Fine to medium sand, silty sand and smarrounded gravel. Fine to medium sand, silt, and gravel with fragments. Fine to medium sand, silt with gravel and fragments. Sand and silt, with more gravel. Gravel medium sand and silt. Medium sand and some gravel and fine Well Terminated at 160.05 ft.	ith few rock and rock		Depth To Water at 142.25 ft. Bentonite Pellet Seal #2 Washed Gravel Sand Pack 2 in. Sch 40 PVC Flush Thread Screen, 0.010 in. Slotted Well Terminated at 160.05 ft.

APPENDIX B

SOIL GAS SURVEY RESULTS

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Tracer Research Corporation

Shallow Soil Gas Investigation

ROSLYN AIR NATIONAL GUARD STATION Roslyn, New York

September 13 - 15, 1993



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September 13 - 15, 1993

Prepared for:

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9-93-287-S

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1.0 ROSLYN AIR NATIONAL GUARD STATION INVESTIGATION

Tracer Research Corporation (Tracer Research) performed a shallow soil gas investigation at the Roslyn Air National Guard Station located at 209 Harbor Hills Road, Village of East Hills, in the town of Roslyn, Long Island, New York. The investigation was conducted September 13 through 15, 1993 for Operational Technologies Corporation (Op Tech) of San Antonio, Texas.

1.1 Objective

The purpose of the investigation was to determine the extent of possible soil and/or groundwater contamination by screening the shallow soil gas for the presence of volatile organic compounds (VOCs). The soil gas samples were collected and analyzed for the following analyte class and compounds:

Analyte Class: Hydrocarbon

benzene, toluene, ethylbenzene, xylenes (BTEX) total volatile hydrocarbons (TVHC C1 - C9)

1.2 Overview of Results

For this investigation, fifty-eight samples were collected from fifty-eight sampling locations. Samples were collected at depths of 4 to 5 feet below ground surface (bgs). A summary of the results of the investigation is presented in Table 1.

Table 1. Soil Gas Sample Summary

	14010 1. 501 040			
Compound	# of samples in which compound conc. was detected µg/L High conc. µg/L		Sample(s) with high conc.	
benzene	30	0.01	0.4	S2-5-5'
toluene	28	0.02	110	S2-9-5'
ethylbenzene	1	NA	2	S3-9-5 [°]
xylenes	9	0.1	12	S3-9-5'
TVHC C1 - C9	58	0.3	30,000	S1-10-5'

NA = Not Applicable



2.0 SITE DESCRIPTION

The soil gas samples were collected at three different areas at the Air National Guard Station. Site 1 is located between Building 36 and Building 17. Site 2 is located to the north of Building 16 and Site 3 is located to the north of Building 36. Samples were collected through asphalt cover.

The subsurface of this site consists of glacial till and glacial outwash deposits. The depth to groundwater was reported to be 60 feet bgs. Groundwater flow is to the southeast.

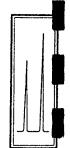
3.0 SOIL GAS SAMPLING PARAMETERS

Soil gas sampling probes consisted of 7- foot lengths of 3/4-inch diameter hollow steel pipe. The probes were fitted with detachable drive tips and hydraulically pushed and/or pounded to depths of 4 to 5 feet bgs. Where there was not van access the probes were handpounded to depth. A pneumatic rotary hammer drill and air compressor were used to drill holes through the asphalt.

The aboveground end of each probe was fitted with an aluminum reducer (manifold) and a length of polyethylene tubing leading to a vacuum pump. Soil gas was pulled by the vacuum pump into the probe. Samples were collected in a syringe by inserting a syringe needle through a silicone rubber segment in the evacuation line and down into the steel probe. The vacuum was monitored by a vacuum gauge to ensure an adequate gas flow from the vadose zone was maintained.

The volume of air within the probe was purged by evacuating 2 to 5 probe volumes of gas. The evacuation time in minutes versus the vacuum in inches of mercury (Hg) was used to calculate the necessary evacuation time. The vacuum in inches Hg was recorded at each sampling location.

Sample probe vacuums ranged from 2 to 15 inches Hg. The vacuum capacity of the pump was approximately 22 inches Hg.



4.0 ANALYTICAL PARAMETERS

During this investigation, 5 to 10 milliliters (mL) of soil gas were collected for each sample and immediately analyzed in the Tracer Research analytical van. Subsamples (replicates) from these samples were injected into the gas chromatograph (GC) in volumes of 1 to 1,000 microliters (µL).

Analytical instruments were calibrated daily using fresh working standards made from National Institute of Sciences and Technology (NIST) traceable standards and reagent blanked solvents.

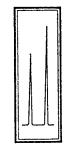
4.1 Chromatographic System

A Hewlett Packard 5890 Series II gas chromatograph, equipped with a flame ionization detector (FID) and one computing integrator, was used for the soil gas analyses. The compounds were separated in the GC on one 6 foot by 1/8 inch outer diameter (OD) packed analytical column (10% TCEP stationary phase bonded to 80/100 mesh Chromosorb PAW support) in a temperature controlled oven. Nitrogen was used as the carrier gas.

The instrument calibrations were checked periodically throughout the day to monitor the response factor and retention time. The following paragraphs explain the GC and FID processes.

GC Process

The soil gas is injected into the GC where it is swept through the analytical column by the carrier gas. The detector senses the presence of a component different from the carrier gas and converts that information to an electrical signal. The components of the sample pass through the column at different rates, according to their individual properties, and are detected by the detector. Compounds are identified by the time it takes them to pass through the column (retention time).



FID Process

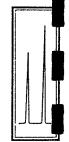
The FID utilizes a flame produced by the combustion of hydrogen and air. When a component, which has been separated on the GC analytical column, is introduced into the flame, a large increase in ions occurs. A collector with a polarizing voltage is applied near the flame and the ions are attracted and produce a current, which is proportional to the amount of the sample compound in the flame. The electrical current causes the computing integrator to record a peak on a chromatogram. By measuring the area of the peak and comparing that area to the integrator response of a known aqueous standard, the concentration of the analyte in the sample is determined.

4.2 Analyses

The detection limits for target compounds depend on the sensitivity of the detector to the individual compound as well as the volume of the sample injection. The detection limits of the target compounds were calculated from the response factors, the sample injection sizes, and the calculated minimum peak size (area) observed under the conditions of the analyses. If any compound was not detected in an analysis, the detection limit is given as a "less than" value, e.g., $<0.01 \,\mu\text{g/L}$. The approximate detection limits for the target compounds are presented in Table 2.

Table 2. Detection Limits for Target Compounds

Compound	Detection Limits (µg/L)
benzene	0.01
toluene	0.02
ethylbenzene	0.03
xylenes	0.05
TVHC	0.05



5.0 QUALITY ASSURANCE AND QUALITY CONTROL

Tracer Research's Quality Assurance (QA) and Quality Control (QC) program was followed to maintain data that was reproducible through the investigation. An overview presenting the significant aspects of this program is presented below.

Soil Gas Sampling Quality Assurance

To ensure consistent collection of samples, the following procedures are performed:

- Sampling Manifolds

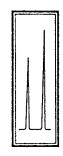
Tracer Research's custom designed sampling manifold connects the sample probe to the vacuum line and pump. The manifold is designed to eliminate sample exposure to the polymeric (plastic) materials that connect the probe to the vacuum pump.

The sampling manifold is attached to the end of the probe, forming an air tight union between the probe and the silicone tubing septum. The septum connects the manifold to the pump vacuum line and permits syringe sampling.

This sampling system allows the sample to be taken upstream of the sampling pump, manifold, and septum. Since cross contamination of sampling equipment can be a major problem, Tracer Research replaces the materials (probe and syringe), between sampling points, that contact the soil gas before or during sampling.

-Sampling Probes

Steel probes are used only once each day. To eliminate the possibility of cross contamination, they are washed with high pressure soap and hot water spray, or steam-cleaned. Enough sampling probes are carried on each van to avoid the need to re-use any during the day.



-Glass Syringes

Glass syringes are used for only one sample a day and are washed and baked out at night. If they must be used twice, they are purged with carrier gas (nitrogen) and baked out between probe samplings.

-Sampling Efficiency

Soil gas pumping is monitored by a vacuum gauge to ensure that an adequate flow of gas from the soil is maintained. A reliable gas sample can be obtained if the sample vacuum gauge reading is at least 2 inches Hg less than the maximum measured vacuum of the vacuum pump.

Analytical Quality Assurance Samples

Quality assurance samples are performed at the minimum frequencies listed in Table 3. The actual frequency depends on the number of samples analyzed each day and the length of time of the survey.

Table 3. Quality Assurance Samples

Sample type	Frequency
Ambient Air Samples	3 per day or 1 per site
Analytical Method Blanks	5% (1 per 20 samples or 1 a day)
Continuing Calibration Check	20% (1 every 5 samples)
Field System Blank	1 per day
Reagent Blank	1 per set of working standards
Replicate Samples	10 to 100% of all samples

The ambient air samples are obtained on site by sampling the air immediately outside the mobile analytical van and directly injecting it into the GC. Analytical method blanks are taken to demonstrate that the analytical instrumentation is not contaminated. These are performed by injecting carrier gas (nitrogen) into the GC with the sampling syringe. Subsampling syringes are also checked in this fashion.

The injector port septa through which soil gas samples are injected into the GC are replaced daily to prevent possible gas leaks from the chromatographic column. All sampling and subsampling syringes are decontaminated after use and are not used again until they have been decontaminated by washing in anionic detergent and baking at 90°C.

Field system blanks are analyzed to check for contamination of the sampling apparatus, e.g., probe and sampling syringe. A sample is collected using standard soil gas sampling procedures, but without putting the probe into the ground. The results are compared to those obtained from a concurrently sampled ambient air analysis.

If the blanks detect compounds of interest at concentrations that indicate equipment contamination or concentrations that exceed normal background levels (ambient air analysis), corrective actions are performed. If the problem cannot be corrected, an out-of-control event is documented and reported. Field system blanks are not performed every day if clean probes are still available. Field system blanks are performed after any probe decontamination process.

A reagent blank is performed to ensure the solvent used to dilute the stock standards is not contaminated. Analytical instruments are calibrated daily using fresh working standards made from National Institute of Sciences and Technology traceable standards and reagent blanked solvents.

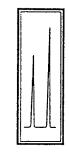
Quantitative precision is assured by replicating analysis of 10 to 100 percent of the samples. The percentage is based on the sample analysis time. Replicate analyses are performed by subsampling vapors from the same sampling syringe.

6.0 RESULTS

The analytical results from this soil gas investigation are condensed in Appendix A. The data are presented by location and by analyte concentration. When the compound was not detected, the detection limit is presented as a "less than" value, e.g., <0.01 μ g/L. TVHC is defined as total volatile hydrocarbons in the range of C1 through C9.

Soil gas samples are identified by sample location and sampling depth. For

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example, S2-2-4' represents a soil gas sample collected at Site 2 location 2 at a depth of 4 feet bgs.

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APPENDIX A Condensed Data

TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS OPERATIONAL TECHNOLOGIES CORPORATION/ ROSLYN AIR NATIONAL GUARD STATION/ ROSLYN, NEW YORK/ 9-93-287-S 09/13/93

SAMPLE	BENZENE µg/L	TOLUENE µg/L	ETHYL BENZENE µg/L	XYLENES µg/L	TVHC C1 - C9 µg/L
AIR	97.0	0.04	<0.03	<0.05	-
S3-2-5'	0.04	0.06	<0.03	<0.05	0.7
S3-1-5'	0.00	0.02	<0.03	<0.05	0.5
S3-5-5'	0.04	<0.02	<0.03	<0.05	0.7
S3-3-5'	0.03	<0.02	<0.03	<0.05	0.4
S3-4-5'	0.03	<0.02	<0.03	<0.05	0.7
S3-6-5'	0.05	0.07	<0.03	<0.05	2
S3-8-5'	<0.03	<0.06	<0.1	<0.2	340*
S3-7-5'	<0.2	<0.06	<0.1	<0.2	1500*
S3-9-5'	<10	19	2	12	27000
AIR	0.03	0.05	<0.03	<0.05	-
S1-31-5'	<0.01	<0.02	<0.03	<0.05	0.3
S1-28-5'	0.1	<0.02	<0.03	<0.05	0.8
S1-25-5'	0.02	0.04	<0.03	<0.05	1
\$1-22-5'	0.06	0.02	<0.03	<0.05	2 2 1
\$1-19-5'	0.03	0.02	<0.03	<0.05	
\$1-16-5'	0.03	<0.02	<0.03	<0.05	
S1-13-5'	40.140.140.1	<0.2	<0.3	<0.5	1300*
S1-10-5'		<0.4	<0.6	<0.9	30000*
S1-7-5'		<0.2	<0.3	<0.5	1300*

^{*} TVHC may contain elevated levels of nonaromatic compounds

Analyzed by: L. Schenmeyer Proofed by: M. Shilla

OPERATIONAL TECHNOLOGIES CORPORATION/ ROSLYN AIR NATIONAL GUARD STATION/ ROSLYN, NEW YORK/ 9-93-287-S TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS 09/13/93

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TVHC CI - C9 µg/L	540* 4 150*	1300* 740*	1
XYLENES µg/L	<0.2 <0.05 <0.05	<0.5 <0.2	<0.05
ETHYL BENZENE µg/L	<0.1 <0.03 <0.03	<0.3	<0.03
TOLUENE µg/L	<0.06 0.02 <0.02	<0.2 <0.06	<0.02
BENZENE µg/L	<0.03 0.2 0.01	<0.1 <0.03	0.02
SAMPLE	\$1-4-5' \$1-1-5' \$1-2-5'	S1-5-5' S1-8-5'	AIR

Analyzed by: L. Schenmeyer Proofed by: M. 341/44

^{*} TVHC may contain elevated levels of nonaromatic compounds

TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS OPERATIONAL TECHNOLOGIES CORPORATION/ ROSLYN AIR NATIONAL GUARD STATION/ ROSLYN, NEW YORK/ 9-93-287-S 09/14/93

TVHC CI - C9 µg/L	2	1900* 3800* 500*	2 2 0.7	0.8 1	7 7	1 1700* 4600*	3600* 1600*	
XYLENES µg/L	<0.05	<0.2 <0.5 <0.2	0.2 0.2 <0.05	<0.05 <0.02 0.1	0.1	0.1 <0.9 <1	<1 <0.5	<0.05
ETHYL BENZENE µg/L	<0.03	<0.2 <0.3 <0.2	<0.03 <0.03 <0.03	<0.03 <0.03 <0.03	<0.03	<0.03 <0.7 <0.7	<0.7	<0.03
TOLUENE µg/L	0.2	<0.1 <0.2 0.2	0.2 0.1 0.2	0.02 0.02 0.1	0.04	0.1 <0.4 <0.4	<0.4	0.03
BENZENE Hg/L	0.05	<0.1 <0.2 <0.05	0.04 0.09 0.03	0.01 0.01 0.03	0.02	0.02 <0.2 <0.2	<0.2	0.01
SAMPLE	AIR	S1-11-5' S1-14-5' S1-17-5'	\$1-20-5' \$1-26-5' \$1-32-5'	S1-33-5' S1-30-5' S1-27-5'	S1-24-5' AIR	S1-21-5' S1-18-4' S1-15-5'	S1-12-5' S1-9-5'	AIR

^{*} TVHC may contain elevated levels of nonaromatic compounds

Analyzed by: L. Schenmeyer Proofed by: MS

TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS OPERATIONAL TECHNOLOGIES CORPORATION/ ROSLXN AIR NATIONAL GUARD STATION/ ROSLYN, NEW YORK/ 9-93-287-S 09/14/93

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280*	420*	9.0		0.7	0.3 18000*	6000*
<0.1	<0.2	<0.05	<0.05	<0.05	<0.05	<1 <0.5
<0.07	<0.1	<0.03	<0.03	<0.03	<0.03 <7	<0.7
<0.04 0.09	>0.06	<0.02	0.04	0.02	0.02 <4	<0.4
<0.02 0.04	<0.03	0.01	0.03	<0.01	0.01	<0.2
S1-6-5' S1-3-5'	S3-11-5°	\$3-10-5	AIR	S2-15-5 [°]	\$2-16-5' \$2-12-5'	S2-7-5' S2-10-5'
	 <0.02 <0.04 <0.09 <0.03 <0.05 	<0.1 <0.05 <0.2	<0.02	<0.02	<0.02	<0.02

Analyzed by: L. Schenneyer Proofed by: 14 \$\hat{\lambda}\$

^{*} TVHC may contain elevated levels of nonaromatic compounds

TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS OPERATIONAL TECHNOLOGIES CORPORATION/ ROSLYN AIR NATIONAL GUARD STATION/ ROSLYN, NEW YORK/ 9-93-287-S 09/15/93

SAMPLE	BENZENE	TOLUENE µg/L	ETHYL BENZENE µg/L	XYLENES µg/L	TVHC CI - C9 µg/L
	0.03	0.03	<0.04	<0.05	1
	0.01	0.02	6.08	<0.05	0.5
	0.01	<0.02	<0.04 40.04	<0.05	2
	0.01	1 0.2	<0.04 <0.04	<0.05 0.2	72 2
	<0.01	0.05	V0.04	0.1	г
	7 7	110	₹ .	v.r <10	14000*
	<0.01	<0.02	<0.04	<0.05	1
	<0.2 <0.01	28 <0.02	<0.7 <0.04	<1 <0.05	2000* 0.9
	<0.01	<0.02	<0.04	<0.05	· ·

Analyzed by: L. Schenmeyer Proofed by: MS

^{*} TVHC may contain elevated levels of nonaromatic compounds

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Tracer Research Corporation appreciates the opportunity of being of service to your organization. Because we are constantly striving to improve our service to you, we welcome any comments or suggestions you may have about how we can be more responsive to the needs of your organization. If you have any questions about the field work, analytical results, or this report, please give Marty Favero a call at (602) 888-9400.

APPENDIX C

WELL CONSTRUCTION DIAGRAMS

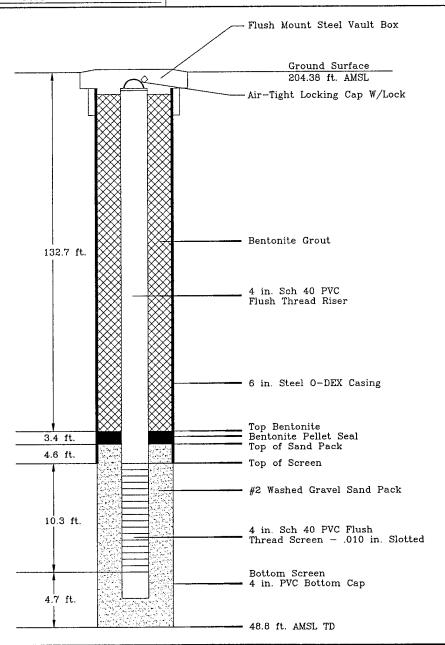
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SECTION C.1 INTRODUCTION

Well construction diagrams have been completed for each piezometer and monitoring well installed as part of the Site Investigation. Diagrams are presented in numerical order. The diagrams include water level data and well construction information for each individual well. Well construction information includes an outline of the wellbore, depth of the borehole, the screened interval, and the sand packed and bentonite seal interval. Due to the collapse and subsequent abandonment, there is no well construction diagram for piezometer 3 (PS-3).

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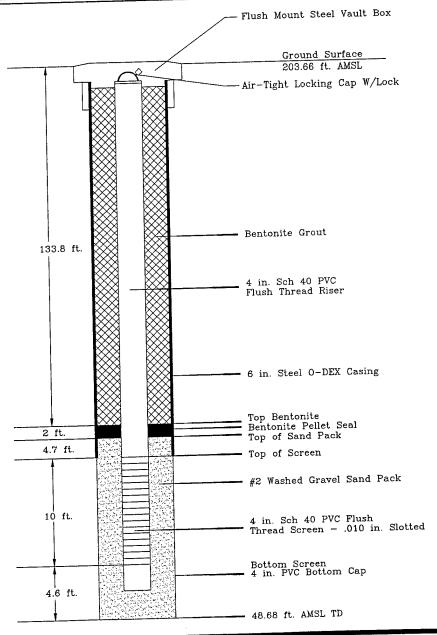
May 2-6, 1994Date Installed: Roslyn ANGS SI Project: Drilling Contractor: Water Resources, Inc. Town/City: Roslyn Drilling Method: Nassau State: New York O-DEX_ County: 204.25 ft. Borehole Diameter: 6 in. TOC Elev: Development Technique: Ground Elev.: 204.38 ft. Electric Submersible Pump ____TOC 142.24 ft. Water Level: Not To Scale Total Well Depth: 48.88 ft.



WELL CONSTRUCTION LOG Well No. 01-001MW



May 11-12, 1994 Date Installed: Roslyn ANGS SI Project: Drilling Contractor: Water Resources, Inc. Town/City: Roslyn O-DEXDrilling Method: Nassau State: New York County: Borehole Diameter: 6 in. 203.35 ft. TOC Elev: Development Technique: Ground Elev.: 203.66 ft. Electric Submersible Pump ___ TOC 141.56 ft. Water Level: Not To Scale 48.68 ft. Total Well Depth:



WELL CONSTRUCTION LOG Well No. 02-001MW



 Project:
 Roslyn ANGS SI

 Town/City:
 Roslyn

 County:
 Nassau
 State: New York

 TOC Elev:
 201.22 ft.

 Ground Elev.:
 201.53 ft.

 Water Level:
 139.63 ft.
 TOC

Date Installed: May 9-10, 1994

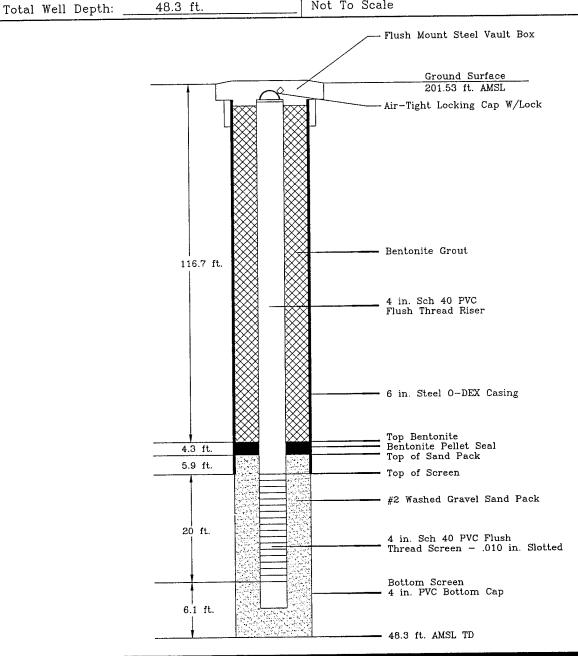
Drilling Contractor: Water Resources, Inc.

Drilling Method: O-DEX

Borehole Diameter: 6 in.

Development Technique: Electric Submersible Pump

Not To Scale



WELL CONSTRUCTION LOG Well No. 03-001MW



 Project:
 Roslyn ANGS SI

 Town/City:
 Roslyn

 County:
 Nassau
 State:
 New York

 TOC Elev:
 205.75 ft.

 Ground Elev.:
 206.01 ft.

Water Level: 144.20 ft. TOC

Total Well Depth: 46.0 ft.

Date Installed: April 22-25, 1994

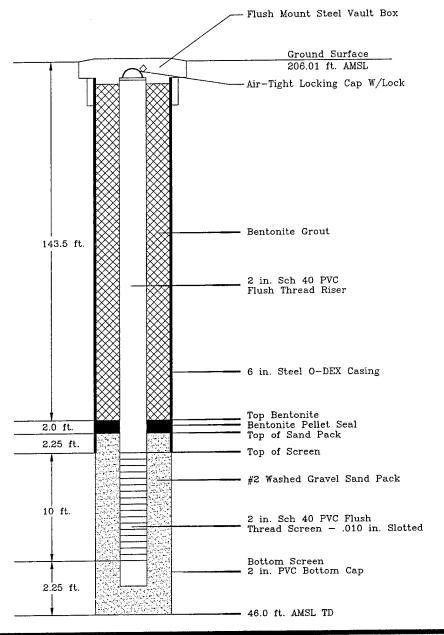
Drilling Contractor: Water Resources, Inc.

Drilling Method: O-DEX

Borehole Diameter: 6 in.

Development Technique:
Not Developed

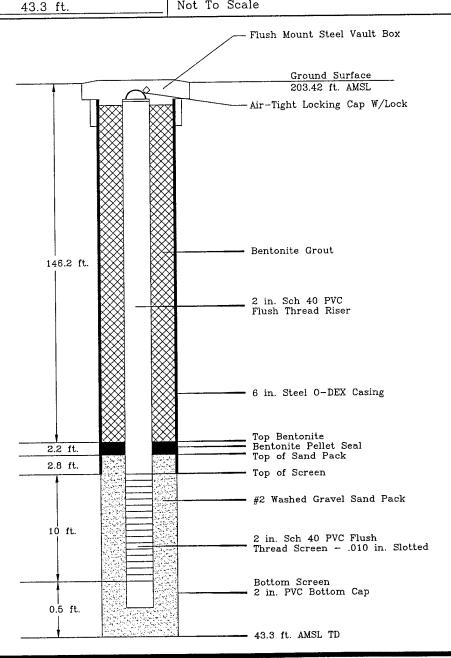
Not To Scale



WELL CONSTRUCTION LOG Well No. PS-2



April 26-27, 1994 Date Installed: Roslyn ANGS SI Project: Drilling Contractor: Water Resources, Inc. Town/City: Roslyn O-DEXNassau State: New York Drilling Method: County: Borehole Diameter: 6 in. 203.10 ft. TOC Elev: Development Technique: Ground Elev.: 203.42 ft. Not Developed _____142.25 ft. TOC Water Level: Not To Scale Total Well Depth: _



WELL CONSTRUCTION LOG Well No. PS-3



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APPENDIX D

FIELD GC SCREENING RESULTS

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SECTION D.1 INTRODUCTION

This section includes the raw Gas Chromatograph (GC) data generated during the field screening of soil samples collected during the drilling of boreholes, and of groundwater samples collected concurrently with groundwater sampling. Table D-1 summarize the GC screening results for soil and groundwater samples. Table D-2 indicates field GC results from soil cuttings obtained during piezometer and monitoring well drilling. A copy of all field GC chromatograms are also presented.

Table D-1
Field GC Results of Soil and Groundwater Samples
Roslyn ANGS, Roslyn, New York

Roslyn Angs, Roslyn, New Tork							
Concentration: Borehole/Interval (ft BLS)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	m,p- Xylene (ppb)	o- Xylene (ppb)	Total BTEX (ppb)	MTBE (ppb)
01-001BH 0.0 - 1.5	ND	ND	ND	ND	ND	ND	NC
01-001BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	NC
01-001BH 10.0 - 11.5	ND	169.9	ND	ND	ND	169.9	NC
01-002BH 0.5 - 2.0	ND	ND	ND	ND	ND	ND	26.36
01-002BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	ND
01-002BH 10.0 - 10.5	ND	ND	ND	ND	ND	ND	ND
01-002BH 10.0 - 10.5 Dup	ND	ND	ND	ND	ND	ND	ND
01-003BH 0.0 - 1.5	ND	ND	ND	ND	ND	ND	NC
01-003BH 6.5 - 8.0	ND	ND	ND	ND	ND	ND	NC
01-003BH 10.0 - 11.5	ND	ND	ND	ND	ND	ND	NC
01-004BH 0.0 - 1.5	35.73	ND	ND	ND	26.52	62.25	NC
01-004BH 5.0 - 6.5	NC	NC	NC	NC	NC	NC	NC
01-004BH 10.0 - 11.5	ND	2.73	ND	ND	ND	2.73	NC
02-001BH 0.0 - 1.5	ND	11.32	ND	ND	ND	11.32	NC
02-001BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	NC
02-001BH 10.0 - 11.5	ND	4.67	ND	ND	ND	4.67	NC
02-002BH 0.0 - 1.5	ND	1.54	1,098.0	ND	9,635.0	10,734.5	NC
02-002BH 5.0 - 6.5	*	*	*	*	*	*	NC
02-002BH 10.0 - 11.5	*	*	*	*	*	*	NC
02-003BH 0.5 - 2.0	ND	ND	ND	ND	ND	ND	ND
02-003BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	ND
02-003BH 10.0 - 11.5	ND	5.25	ND	ND	ND	5.25	ND
02-004BH 0.0 - 0.5	ND	39.33	ND	ND	27.50	66.83	NC
02-004BH 5.0 - 5.5	144.11	7,713.0	885.3	ND	1,554.0	10,296.41	NC
02-005BH 0.0 - 0.5	ND	6.12	ND	ND	ND	6.12	NC
02-005BH 5.0 - 5.5	276.63	2,526.8	531.3	ND	1,710.3	5,045.06	NC
02-006BH 0.0 - 0.5	ND	14.99	ND	ND	12.12	27.11	NC
02-006BH 5.0 - 5.5	ND	15.16	5.40	ND	12.77	33.33	NC
02-007BH 0.0 - 0.5	0.72	104.8	ND	ND	ND	105.5	NC
02-007BH 5.0 - 5.5	2.09	15.90	ND	ND	3.49	21.48	NC
02-008BH 0.0 - 0.5	0.85	ND	1.20	ND	ND	2.05	NC
02-008BH 5.0 - 5.5	ND	21.07	ND	ND	ND	21.07	NC
03-001BH 0.0 - 1.5	2.98	ND	2.49	ND	11.64	17.12	NC
03-001BH 5.0 - 6.5	ND	3.45	ND	ND	ND	3.45	NC
03-001BH 10.0 - 11.5	ND	ND	ND	ND	ND	ND	NC
03-002BH 0.0 - 1.5	ND	3.18	ND	ND	ND	3.18	NC
03-002BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	NC
03-002BH 10.0 - 11.5	ND	ND	3.35	ND	ND	3.35	NC

Table D-1 (Concluded) Field GC Results of Soil and Groundwater Samples Roslyn ANGS, Roslyn, New York

Concentration: Borehole/Interval (ft BLS)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	m,p- Xylene (ppb)	o- Xylene (ppb)	Total BTEX (ppb)	MTBE (ppb)
03-003BH 0.0 - 1.5	ND	ND	ND	ND	ND	ND	ND
03-003BH 5.0 - 6.5	ND	ND	5.43	ND	ND	5.43	NC
03-003BH 10.0 - 11.5	ND	ND	ND	ND	ND	ND	ND
03-004BH 0.0 - 1.5	ND	ND	12.61	ND	4.78	17.39	NC
03-004BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	NC
03-004BH 10.0 - 11.5	ND	ND	4.09	ND	ND	4.09	NC
03-004BH 10.0 - 11.5 Dup	ND	164.2	ND	ND	ND	164.2	NC
03-005BH 0.5 - 2.0	ND	ND	ND	ND	ND	ND	ND
03-005BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	ND
03-005BH 10.0 - 11.5	ND	ND	ND	ND	ND	ND	ND
03-006BH 0.0 - 1.5	ND	4.22	17.11	ND	37.61	58.94	NC
03-006BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	NC
03-006BH 10.0 - 11.5	ND	ND	ND	ND	ND	ND	NC
BG-001BH 0.0 - 1.5	ND	ND	ND	ND	ND	ND	ND
BG-001BH 5.0 - 6.5	ND	ND	ND	ND	ND	ND	ND
BG-001BH 10.0 - 11.5	ND	ND	ND	ND	ND	ND	ND
01-001MW	ND	ND	ND	ND	ND	ND	NC
02-001MW	ND	ND	12.0	ND	ND	12.0	NC
03-001MW	ND	ND	ND	ND	ND	ND	NC

GC - Gas Chromatograph.

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes.

 $MTBE\ -\ Methyl-t-butyl-ether.$

ft BLS - feet Below Land Surface.

ppb - parts per billion. BH - Borehole.

BG - Background sample.

MW - Monitoring Well.

Dup - Duplicate sample.

ND - Analyte not detected.

NC - Analysis not conducted.

* - Analyte concentrations exceeded the maximum calibration range for the field GC and individual analytes were not identified.

Table P-2
Field GC Results During Piezometers/Monitoring Well Installation
Roslyn ANGS, Roslyn, New York

					m 4 1	
Concentration:	n	77-1	Ethylbongone	Xylene	Total BTEX	МТВЕ
Well ID/Interval (ft BLS)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	(ppb)	(ppb)	(ppb)
	(bbn)	(bbo)	(PPo)			
PZ-1-A	ND	ND	ND	ND	ND	ND
PZ-1-B	ND	ND	ND	ND	ND	ND
PZ-1-C	ND	ND	ND	ND	ND	ND
PZ-Drum A Composite	ND	ND	ND	ND	ND	ND
PZ-Drum B Composite	ND	ND	ND	ND	ND	ND
PZ-Drum C Composite	ND	ND	ND	ND	ND	ND
PZ-1 Retest A	ND	ND	ND	ND	ND	51.87
PZ-1 Retest B	ND	ND	ND	ND	ND	ND ND
PZ-1 Retest C	ND	ND	ND	ND	ND	
PZ-1 Retest D	ND	ND	ND	ND	ND	ND
PZ-1 A	ND	10.49	ND	24.56	35.05	ND
PZ-1 B	ND	8.25	ND	24.64	32.89	ND
PZ-1 C	ND	ND	ND	ND	ND	ND
PZ-1 D	ND	ND	ND	ND	ND	ND
Existing Dirt	26.22	27.16	18.42	34.12	105.92	ND
Pile Dirt	ND	18.58	23.27	37.36	79.21	ND
Pile Dirt	ND	ND	ND	9.39	9.39	ND
Pile Dirt	ND	ND	ND	ND	ND	ND
PZ-2 15	ND	6.63	8.33	20.79	35.76	ND
PZ-2 30	ND	ND	ND	ND	ND	ND
PZ-2 30 Dup	14.00	40.72	30.15	57.24	142.11	ND
PZ-2 45	ND	ND	22.62	ND	22.62	ND
PZ-2 60	ND	ND	ND	ND	ND	ND
PZ-2 75	ND	ND	ND	ND	ND	ND
PZ-2 160	ND	ND	ND	5.24	5.24	ND
PZ-3 15	ND	ND	ND	ND	ND	ND
PZ-3 30	ND	ND	ND	ND	ND	ND
PZ-3 45	16.12	37.17	27.39	54.38	135.06	ND
PZ-3 60	ND	6.58	ND	4.13	10.71	ND
PZ-3 90	ND	13.23	30.02	60.95	104.21	ND
PZ-3 105	ND	ND	16.67	ND	16.67	ND
PZ-3 155	ND	ND	ND	ND	ND	ND
(01-001MW)						
MW-1 8	ND	ND	ND	ND	ND	ND
MW-1 45	ND ND	ND	ND	ND	ND	ND
MW-1 75	ND	ND	ND	ND	ND	ND
MW-1 100	ND	ND	ND	18.89	18.89	ND
MW-1 120	ND	ND	ND	ND	ND	161.0
MW-1 140	ND	ND	ND	ND	ND	616.7
MW-1 155	ND	ND	ND	ND	ND	ND

Table D-2 (Concluded) Field GC Results During Piezometers/Monitoring Well Installation Roslyn ANGS, Roslyn, New York

Concentration: Well ID/Interval (ft BLS)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylene (ppb)	Total BTEX (ppb)	MTBE (ppb)
03-001MW 15	ND	ND	ND	ND	ND	ND
03-001MW 35	ND	ND	ND	ND	ND	ND
03-001MW 55	ND	ND	ND	ND	ND	36.20
03-001MW 80	ND	ND	ND	ND	ND	11.31
03-001MW 80 Dup	ND	ND	ND	ND	ND	51.13
03-001MW 100	ND	ND	ND	ND	ND	29.50
03-001MW 140	ND	ND	ND	ND	ND	69.94
03-001MW 153	ND	ND	ND	ND	ND	3.82
02-001MW 30	ND	ND	ND	ND	ND	ND
02-001MW 50	ND	ND	ND	ND	ND	ND
02-001MW 85	ND	ND	ND	ND	ND	ND
02-001MW 100	ND	ND	ND	ND	ND	394.7
02-001MW 130	ND .	ND	ND	ND	ND	79.22
02-001MW 145	ND	ND	ND	ND	ND	ND
02-001MW 155	ND	ND	ND	ND	ND	9.2
02-001MW 155 Dup	ND	ND	ND	ND	ND	21.52
Water						
01-001MW	ND	ND	ND	ND	ND	ND
02-001MW	ND	ND	12.00	ND	12.00	ND
03-001MW	ND	ND	ND	ND	ND	ND

GC - Gas Chromatograph.

MW - Monitoring Well.

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes.

Dup - Duplicate sample.

MTBE - Methyl-t-butyl-ether.

ND - Analyte not detected.

ft BLS - feet Below Land Surface.

ppb - parts per billion.

PZ - Piezometer Well.

Notes:

- PZ-1 analyses not identified by interval. GC analysis conducted from grab samples obtained from drummed cuttings.
- Existing dirt and dirt pile analysis conducted on fill dirt before piezometer/monitoring well soil cuttings were deposited.
- Numbers following well identification (with the exception of PZ-1) indicate interval (in feet BLS) from which the sample was obtained.

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Values stored in Lybrary

PHOTOVAC

1 COMPOUND ID # R.T. LIMIT

BENZENE 1 78.1 1.000 PPH TOLUENE 2 135.5 1.000 PPH ETHYLBENZENE 3 243.0 1.000 PPH D-XYLENE 4 278.7 1.000 PPH



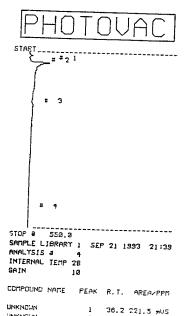
GAIN 10

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOUN 1 54.1 1.2 US
UNKNOUN 2 63.2 264.1 MUS
BEMÄENE 3 84.2 2.984 PPB
UNKNOUN 4 106.0 5.7 MUS
UNKNOUN 5 226.8 31.9 MUS
ETHYLBENZENE 6 398.2 2.91 PPB
ETHYLBENZENE 7 466.4 11.64 PPB

.03-001 Depth $0-1.5^{1}$

ANALYSIS # 3 INTERNAL TEMP 27



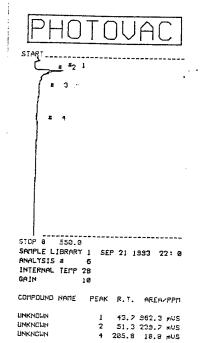
2 42.9 5.9 mUS 3 170.2 3.449 PPB

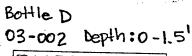
4 520.5 11.8 mUS

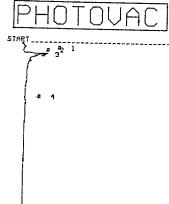
03-001BH Depth 5.0-6.5

LCFRENE NWKNONN

Bottle \$\mathbb{O}\$ 03-001 Depth 10-11.5







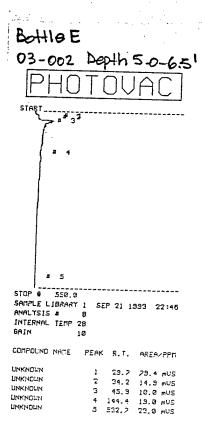
COMPOUND NAME FEAK R.T. AREA/PPM UNKNOWN 1 35.7 316.9 mUS

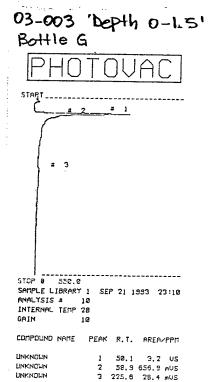
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 1
 35.7
 316.9 mUS

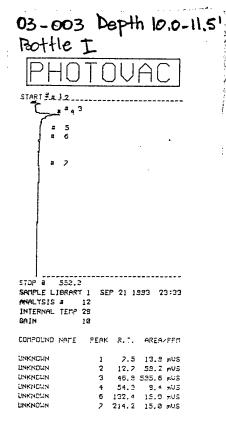
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 2
 43.3
 28.2 mUS

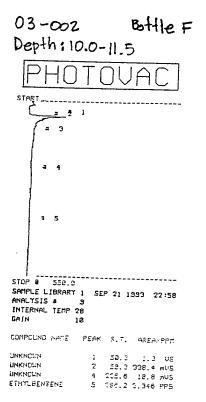
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 3
 58.3
 28.5 mUS

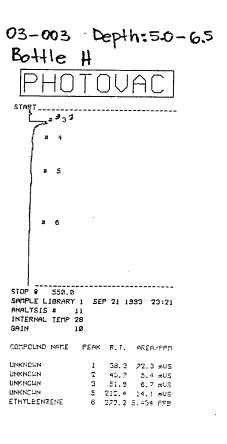
 TOLUENE
 4
 187.2
 3.178 PPB

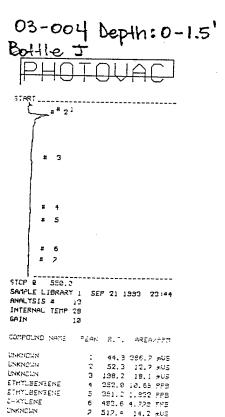












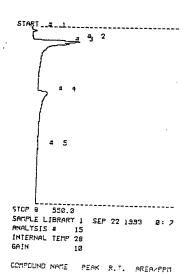
PHOTOVAC

```
# 3

STOP @ 558.0
SAMPLE LIBRARY 1 SEP 21 1993 23:52
ANALYSIS # 14
INTERNAL TEMP 25
GAIN 10

COMPOUND NAME PEAK R.T. AREA/PPM
UNKNOUN 1 10.1 14.4 mUS
UNKNOUN 2 11.9 5.5 mUS
UNKNOUN 3 42.1 458.9 mUS
UNKNOUN 4 200.4 32.2 mUS
```

03-004 Depth 5.0-6.5 Bottle K



5 379.2 4.087 PPB 03-004 Pepth 10.0-11.51 Polite L

211.9

12.7 12.3 mUS

42.3 2.5 US 54.9 1.1 US

1.1 US

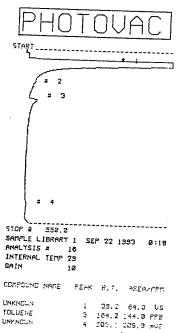
DUKNONN

UNKNOWN

UNKNOWN

UNKNOWN

ETHTLBENZENE



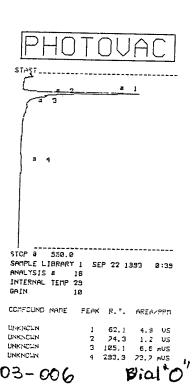
03-064 Duplique Bottle Depth 10-11.5' N

5

STOP @ 550.0 SAMPLE LIBRARY 1 SEP 22 1993 0:28 ANALYSIS # 12 INTERNAL TEMP 29 GAIN

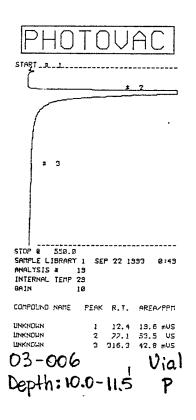
COMPOUND NAME PEAK R. I. AREAZPPM 31.1 512.5 mUS THKHOMM 36.2 58.7 mUS 24.7 33.7 mUS 151.6 123.0 mUS UNKNOUN UNKHOWN UNKNOUN 128.2 4.218 PPB TOLUENE CNKNOWN 6 186.7 223.7 mUS 7 323.2 38.5 mUS UNKNOUN 8 404.7 17.11 PFB 9 434.4 32.61 FPB ETHYLBENTENE D-XYLENE 12 508.2 15€.3 mUS UNKHOUN

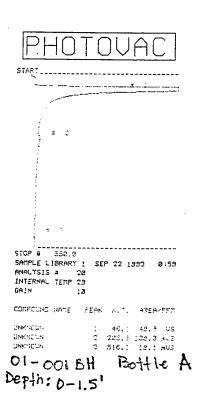
Bottle 03-006 N Depth 0-1.5

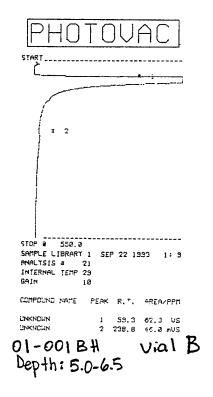


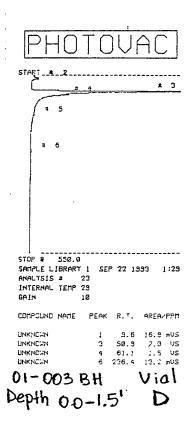
03-006

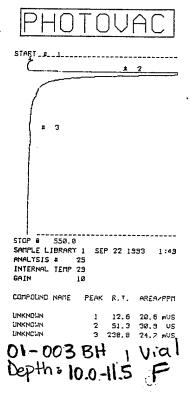
Depth: 5.0-6.5

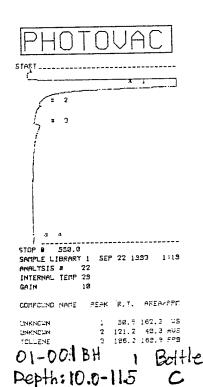


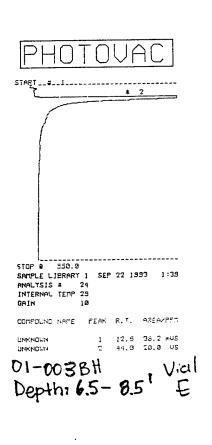


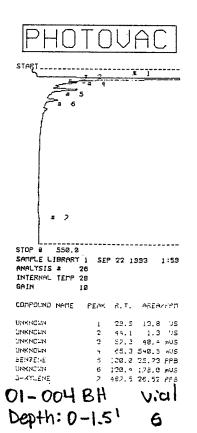


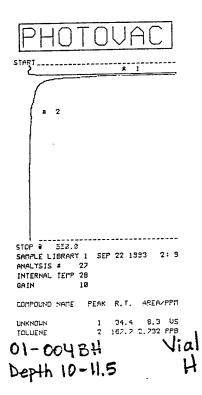


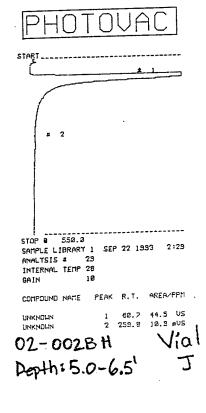


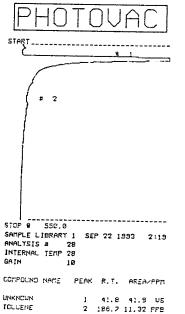




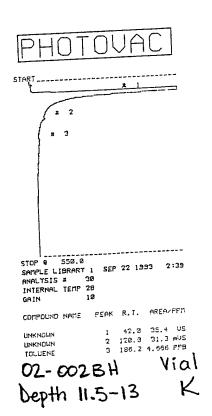


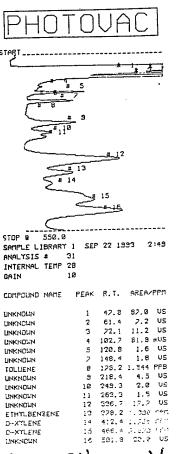




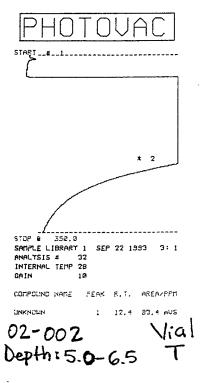


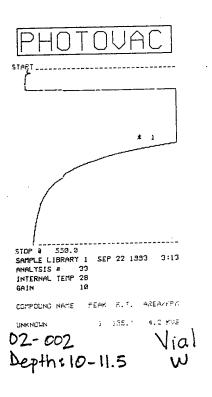
02-002BH Vial Depthr 0-1.5 I



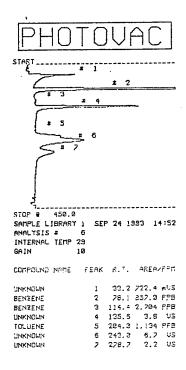


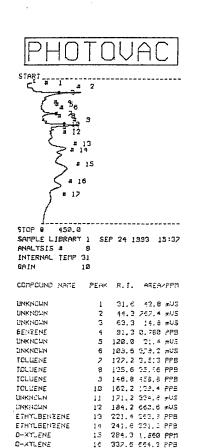
02-002BH Vial Depth: 0-1.51 S





CALIBRATION SHOT





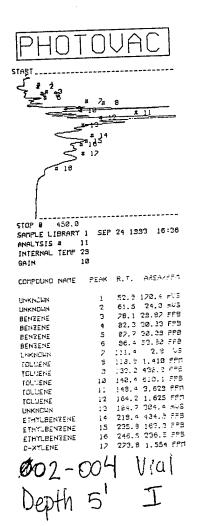
02-004 Depth 3,5

STOP 9 SAMPLE LIBRARY 1 SEP 24 1993 16: 7 ANALYSIS # INTERNAL TEMP 29 GAIN COMPOUND NAME PEAK R.T. AREAZEPH UNENCHN DINKNOWN 40.3 21.8 mUS UNKHOUN 45.2 5.7 mUS 58.9 105.7 mUS UNKNOUN UNKNOWN 62.1 20.9 mUS 62.3 1.522 PPB 75.3 13.25 PPB BENTENE BENZENE BENZENE 20.2 78.41 PPB UNKNOLN 122.7 1.5 US 112.1 25.25 PPB 125.2 84.14 PFS TOLUENE TOLUENE TOLUENE 195.5 1.026 PPM 143.5 313.2 PPB TOLUENE TOLUENE 157.6 242.7 PPB 121.2 1.3 US 126.4 678.6 678 15 EIMMUBENZENE ETHYLBENTENE 205.6 518.5 PPB C6E.4 3.271 PPM 317.1 1.376 PPM 1.7 18 O-XYLENE

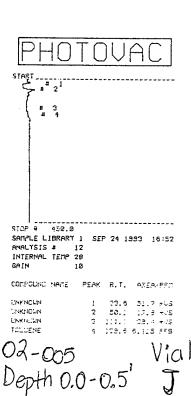
02-004 Depth 41

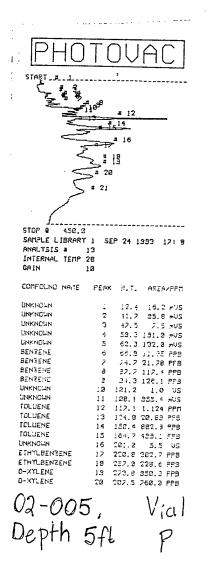
02-004 Depth 0.0-0.5' BOTTLE E 452.2 STOP & SAMPLE LIBRARY 1 SEP 24 1993 15:23 ANALYSIS # INTERNAL TEMP 30 COMPOUND NAME PEAK R.T. AREAVEEN UNKROWN 92.3 634.4 mUS 114.1 10.35 FF3 120.3 13.04 FF8 143.2 3.212 FF8 TOLUENE **TOUUSHE** TOLUENE 263.5 CZ.61 FFB 305.3 4.35% FFS 386.1 31.3 mUS D-XYLENE

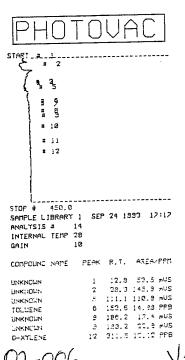
D-XYLENE UNKNELN



La Salar A

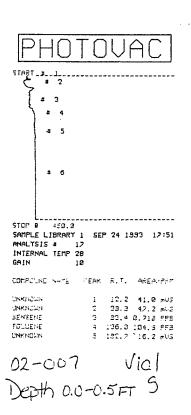


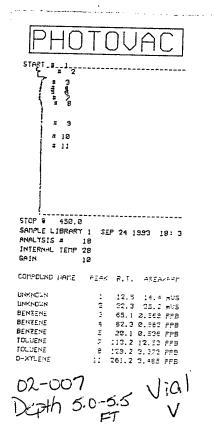


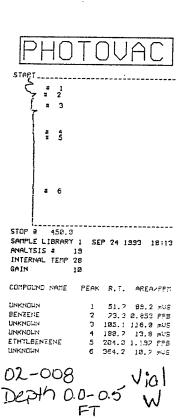


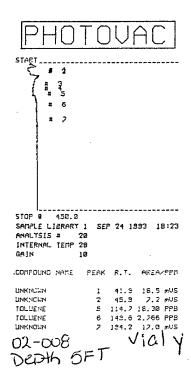
Depth: 0.0-0.5'fl

```
START
       # 2
# 3
       1
1
          4
5
        the state of
        = 11
STOP 0 450.0
SAMPLE LIBRARY 1 SEP 24 1993 17:39
ANALYSIS #
INTERNAL TEMP 28
GAIN
COMPOUND NAME PEAK R.T. AREA/PFM
UNKNOWN
                       33.9 141.7 mUS
                      1:2.3
                            69.6 mUS
пикисли
TOLUENE
                      135.2 15.16 PFB
DHKNONN
                   6
                      194.2 25.8 mUS
ETHYLBENZENE
                      223,8 2,226 PFB
                  9 239.5 Ø.586 PPB
10 254.9 2.189 PPB
ETHYLBENZENE
ETHYLBENZENE
D-XYLENE
                      281.9 3.030 PPS
D-XYLENE
                  12 323.2 3.625 PPB
02-006
                                VIAI
  5FT
                                  R
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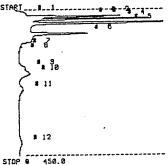












SAMPLE LIBRARY 1 APR 7 1994 15:50 ANALYSIS # 23 MARK ESCOBAR INTERNAL TEMP 15 ROSLYN ANGS GAIN 20 STANDARD

COMPOUND NAME PEAK R.T. AREAZPPM

13.3 158.6 mUS LINKNOUN 20.5 1.3 VS 22.9 1.3 VS **UNKNOUN** חאאסחא 3 22,9 29.2 2.4 US 41.1 5.9 US UNKNOWN **UNKNOWN** 75.2 1.8 US 115.7 11.2 mUS 184.1 51.5 mUS UNKNOWN UNKNOUN MKNONN ETHYLBENZENE 18 200.7 3.529 PPM 11 250.1 441.6 mUS UNKNOUN 412.5 478.7 mUS UNKNOWN

LINIT COMPOUND 10 # R.T. 1 29.2 1.000 PPM MIBE

41.1 1.000 PPM 75.2 1.008 PPM BENZENE TOLLIENE ETHYLBENZENE 4 184.1 1.000 PPM 5 200.7 1.000 PPM 6 250.1 1.000 PPM MP XYLENE O XYLENE

.1.1.2.... START_ 3 ***** 5 STOP 9 450.0 SAMPLE LIBRARY 1 APR 7 1994 16: 3

ANALYSIS # 34 MARK ESCOBAR INTERNAL TEMP 15 ROSLYN ANGS

B'_ANK GAIN

COMPOUND NAME

12.5 163.8 mUS **UNKNOWN** 2 20.7 137.2 mUS 3 115.5 12.4 mUS **THKHOTH** UNKNOWN

PEAK R.T. AREA/PPM

START___#1_2 # 3 # 4 ***** 5 STOP @ 450.0 SAMPLE LIBPARY 1 APR 7 1994 16:11 ANALYSIS # 05 MARK ESCOBAR
INTERNAL TEMP 15 POSLYN ANGS
GAIN 2P BO-021EH 2-1.5 ANALYSIS # COMPOUND NAME PEAK R.T. AREA/PPM

13.3 160.7 mUS UNKNOUN 1 20.6 265.1 mUS UNKNOUN UNKHOWH 3 116.4 11.0 mUS



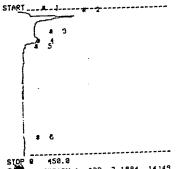
3 STOP # 450.0
SAMPLE LIBRARY 1 APR / 1954 16:20
ANALYSIS # 95 PARY FSCEBAR
INTERNAL TEMF 15 PG5 YN ANGS GAIN TR DESCRIPT B-15
5.0-65
COMPOUND NAME PEAK R.T. AREAZPPM

1 20.2 1.2 US 2 115.5 11.2 mUS UNKNOWN UNKHOWN

START ... # 3 # 4 # 5 STOP # 450.0 SAMPLE LIERARY : APR 7 1994 16:28 ANALYSIS # 37 MARK £3COBAR

ANALYSIS # 37 INTERNAL TEMP 15 ROSLYN ANGS GAIN 72 ES-EBJET 3-15
10.0-11.5
COMPOUND NAME PEAK R.T. AREA/PPM

1 20.2 1.9 US 2 115.6 10.5 mUS DNKNONN UNKNOWN 406.9 146.9 mUS UNKNOWN



STOP 8 450.0

LE LIBRARY 1 APR 7 1994 14:49

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COMPOUND NAME PEAK R.T. AREA/PPM

12.4 152.5 aUS 21.0 2.2 US 87.3 5.250 PPB UNKNOWN пикнопи 2 3 TOLUENE 116.0 12.2 mUS 413.7 25.2 mUS THKHOTH MKNONN

START ____ STOP 2 452.0

SAMPLE LIBRARY : APF 7 1334 15:11 ANALYSIS # 29 MARK ESCOBAP INTERNAL TEMP .5 RESLYN ANGS GAIN 28 PLONK

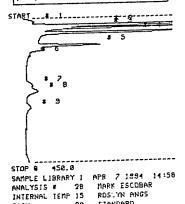
COMPOUND NAME PEAK R.T. AREA/PPM

12.9 224.0 mUS UNKNOWN 21.5 292.5 mUS חאאטריא 3 116.3 12.5 mUS האאטחא

5 # 6 # 7 STOP @ 450.0 SAMPLE LIBRARY | APR 7 1994 15:29 ANALYSIS # 31 PARK ESCOBAR INTERNAL TEMP 15 ROSLYN ANGS 20 03-20527 5-6.5

COMPOUND NAME PEAK R.T. AREA/PPM

12.2 484.4 mUS NKHONH 24.8 505.7 mUS UNKNOWN 2 38.0 16.3 mUS UNKNOWN 116.8 11.6 mUS UNKNOWN



28 STANDARD GAIN COMPOUND NAME PEAK R.T. AREA/PPM

12.5 303.9 mUS 23.0 5.9 US 31.6 4.2 US HINKNOWN חאמטאאח ころべるのころ 45.8 7.6 US 84.8 1.9 US UNKNOWN DHKHOHH 7 209.7 164.5 mUS 8 228.5 598.0 PPB 9 288.7 517.6 mUS ころれるのどろ ETHYLBENZENE ビネスを包じる

START # 5 STOP @ 450.2

SIDP 8 450.8

SAMPLE LIBRARY 1 APP 7 19:0 15:28

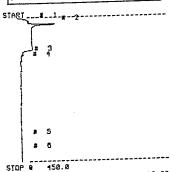
ANALYSIS # 02 PAPK LSCCBAR

INTERNAL TEMP 15 ROSLYN ANGS

GAIN 20 00-P05BH .5-2.0

COMPOUND NAME PEAK R.T. AREA/PPM

12.5 264.6 mUS 21.5 216.6 mUS 24.2 76.8 mUS 115.7 13.8 mUS UNKNOWN **UNKNOWN** UNKNOWN 3 IINKNOHN



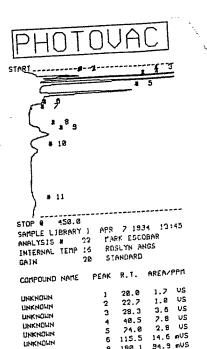
SAMPLE LIBRARY 1 APR 7 1984 15:38 ANALYSIS # 32 MARK ESCOBAR INTERNAL TEMP 15 ROSLYM ANGS 03-225BH 10-11.5 GAIN

PEAK R.T. AREA/PPM COMPOUND NAME

12.4 200.7 mUS DINKNOWN 21.4 589.7 mUS 116.0 12.3 mUS 2 NKHONH UNKNOWN 9,2 mUS 428.1 HINKHUUN

LIMIT ID # R.T. COMPOUND 1

31.6 1.000 PPM MTRE 45.8 1.000 PPM 84.8 1.000 PPM BENZENE 2 TOLUENE 4 289.7 1.000 PPM 5 228.5 1.000 PPM 6 280.7 1.000 PPM ETHYLBENZENE MP XYLENE 0 XYLENE



10

190.1 94.9 mUS 196.7 4.444 PPN 245.9 861.1 mUS

407.7 625.5 mUS

CALIBRATED PEAK 4, BENZENE

ロエススロビュ

UNKNOWN ETHYLBENZENE

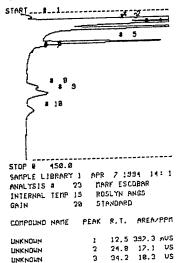
UNKHOHH

DHKNOHH

SAMPLE LIBRARY ! A.R 7 1594 13:51
ANALYSIS # 22 MARK ESCOBAR
INTERNAL TEMP 15 POSLYN ANGS 20 STANDARE GAIN

COMPOUND NAME PEAK R.T. AREA/PPM

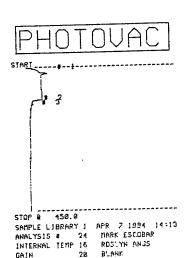
1 20.0	1.7	υs
UNKNOUN 2 22.7 UNKNOUN 3 28.3 HTBE 3 440.5 SENZENE 5 74.8 UNKNOUN 6 115.5 ETHYLBENZENE 8 180.1 ETHYLBENZENE 9 196.7 MP XYLENE 9 245.9	1.000 719.7 14.6 497.7 743.3 807.3	PPB PPB PPB PPB PPB PPB PPB
0 XYLENE 18 245.5 UNKNOUN 11 487.7	625.5	mU



UNKNOHN	4	49.2	12.4	US
UNKNOWN	5	91.2	4.6	υs
NHKHOMH	8	225. I	1.0	υs
D XYLENE	9	246.2	2,263	PPfi
THKHOTH	10	298.7	924.7	mUS

ID # R.T. LINIT COMPOUND

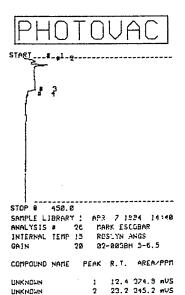
34.2 1.880 PPM NTBE 45.2 1.000 PPM BENSENE 91.2 1.000 PPM 225.1 1.000 PPM 246.2 1.000 PPM TOLUENE ETHYLBENZENE MP XYLENE 298.7 1.800 PPM D XYLENE



COMPOUND NAME PEAK R.T. AREA/PPM

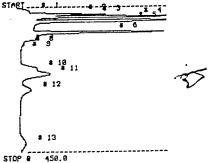
20.0 684.1 mUS DNKNDNN 2 115.9 14.8 mUS חאאטטא

START___#__2____ T# 3 5 STOP 9 450.0 SAMPLE LIBRARY 1 APR 7 1994 14:23 ANALYSIS # 25 MARK ESCOPAR INTERNAL TEMP 15 ROSLYN ANGS 20 02-003PH .5-2.0 GAIN COMPOUND NAME PEAK R.T. AREA/PPM UNKNOUN 12.5 208.0 mUS UNKNOWN 20.9 311.7 mUS 3 52.9 24.2 mUS 4 116.1 12.6 mUS UNKNOUN UNKNOWN



3 117.2 9.2 mUS

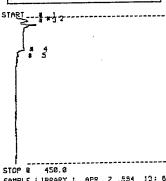
UNKNOWN



STOP @ 450.8
SAMPLE LIBRARY 1 APP 7 1994 12:38
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 16 ROSLYN ANGS
GAIN 20 CALIBRATION

COMPOUND NAME PEAK R.T. AREA/PPM

חאגאטיא	1	12.6	172.6	_n us
UNKHOUH	2	20.9	959.8	nUS
UNKHOUN	3	23.7	1.5	VS
TINKHOPIN	4	29.9	4.4	υs
UNKNOUN	5	42.9	9.0	٧S
UNKNOUN	6	<i>7</i> 8.5	4.4	ŲŞ
TINKHOTIN	8	116.1	16.8	mUS
DUKNOHA	10	192.7	219.5	
UNKNOWN	11	210.1	1.5	ŲS
UNKNOWN	12	260.0	1.2	ŲŠ



SAMPLE LIBRARY 1 APR 7 .554 10:6
ANALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 16 ROSLYN ANGS
GAIN 20 01-0078H .5-2.0

COMPOUND NAME PEAK R.T. AREA/PPM

THKHOMH	1 2		505.1 433.5	
JNK NONN	4			
TEE	3		26.36	
חאגאטאא	4	119.1	12.9	mUS

₽

450.2

STOP 8 458.8
SAMPLE LIBRARY 1 APR 7 1994 13:24
ANALYSIS * 19 MARK ESCOBAR
INTERNAL TEMP 16 ROSLYN ANGS
GAIN 20 01-20/28H 10-10.5

COMPOUND NAME PEAK R.T. AREA/PPM

13.8

1.8 US

39.3 7.1 mUS

57.4 36.4 mUS

71.3 7.1 mUS

6 115.3 15.1 mUS

STOP 8

GAIN

UNKNOUN

UNKNOWN

INKNOUN

UNKNOWN

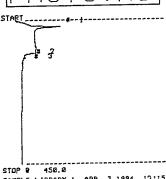
חאאטאא

START _____ SAMPLE LIBRARY 1 APR 7 1994 13:26 28 MARK ESCOBAR ANALYSIS # INTERNAL TERF IC 10 ADSLYN ANGS 28 81-88284 18-18.5 GAIN

COMPOUND NAME PEAK R.T. AREA/PPM

LIMIT COMPOUND ID # R.T.

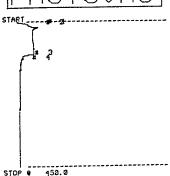
HTBE	1	29.9	1.000	PPM
BENSENE	2	42.5	1.000	PPM
TOLUENE	3		1.000	
ETHYLBENZENE	4		1.000	
MP XYLENE		210.1		
D XYLENE	6	260.0	1.000	PPN



SAMPLE LIBRARY 1 APR 7 1994 13:15 ANALYSIS # 18 MARK ESCGEAR INTERNAL TEMP 16 ROSLYN ANGS P1-2029H 5-6.5 28 GAIN

COMPOUND NAME PEAK R.T. AREA/PPM

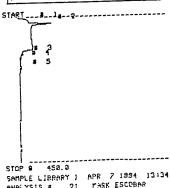
28.5 1.1 VS UNKNOWN 2 115.3 14.8 mUS UNKNOWN



SAMPLE LIBRARY 1 APR 7 1394 12:56 ANALYSIS # 16 MARK ESCOBAR INTERNAL TEMP 15 RESLYN ANGS 28 BLANK

COMPOUND NAME PEAK R.T. AREA/PPM

1 19.2 1.3 US 2 21.8 197.7 mUS 3 115.3 15.9 mUS пикиоли חאגאטהא RNKNORN



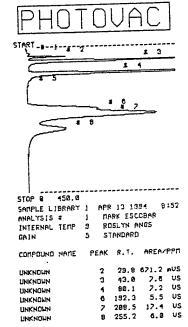
COMPOUND NAME PEAK R.T. AREA/PPM

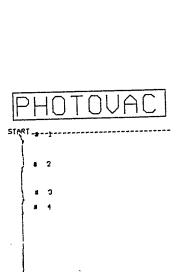
1 12.5 145.6 mUS 2 20.8 486.8 mUS 3 115.8 15.0 mUS 5 157.9 9.8 mUS UNKNOWN THKHOTH NUKNOPA **UNKNOUN**

8:28 APR 13 1994 FIELD: 39 PONER: 51 12.8 SAMPLE 0.9 2.2 EVENT 3 188.9 8.9 8.2 EVENT 4 9.9 9.8 2.2 EVENT 5 EVENT 6 9.2 2.2 EVENT 7

ENENT &

2.2





STOP 9 450.0 SAMPLE LIBRARY 1 APR 13 1994

ANALYSIS # 2 MARK ESCOBAR INTERNAL TEMP 10 ROSLYN ANGS

5

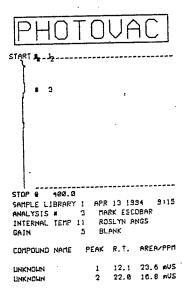
COMPOUND NAME PEAK R.T. AREA/PPM

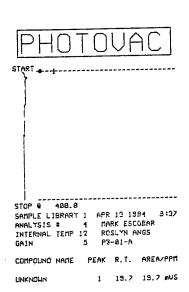
GAIN

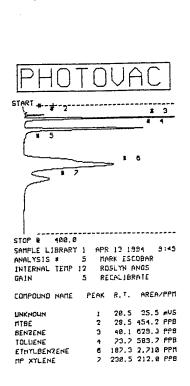
MP XYLENE

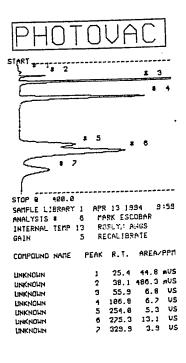
9:3

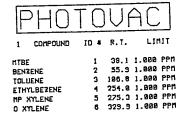
3 204.5 0.606 PPB

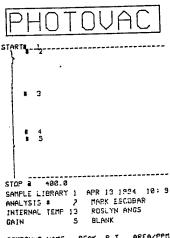






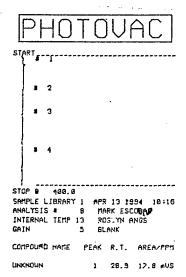


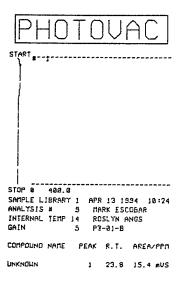


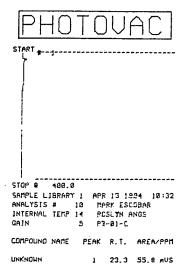


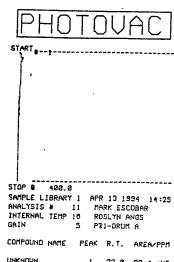
COMPOUND NAME PEAK R.T. AREA/PPM 1 12.0 15.3 mVS 2 27.3 31.8 mVS 5 299.3 0.499 PPB חאגאסמא UNKNOWN

MP XYLENE

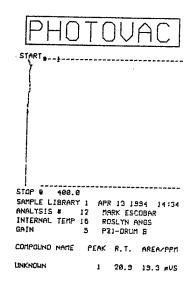


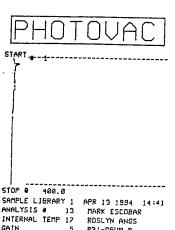






UNKHOUN 1 22.0 22.4 mUS





| STOP W | 148.0 | SAMPLE LIBRARY | APR | 13 | 1994 | 14:41 | ANALYSIS W | 13 | MARK ESCOBAR | INTERNAL | TEMP | 17 | ROSLYN ANGS | GAIN | 5 | PEI-DRUM B

COMPOUND NAME PEAK R.T. AREA/PPM

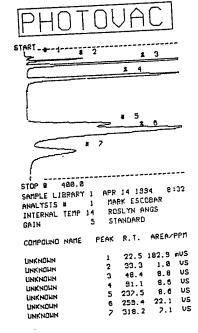
UNKNOWN

1 21.8 69.3 mVS

7:56 APR 14 1994

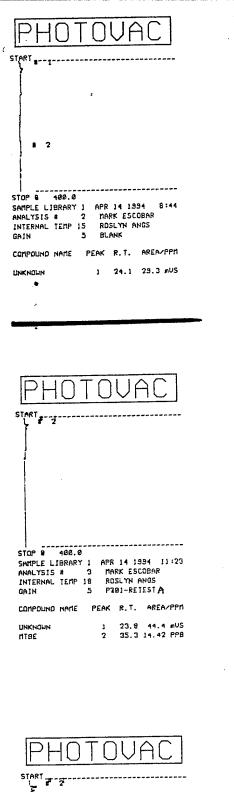
FIELD: 38 POWER: 51

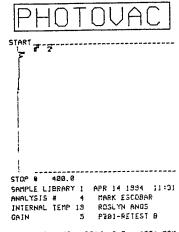
12.0 SAMPLE 8.8 8.9 9.8 CAL 198.9 EVENT 3 8.0 8.8 FUFNT 4 9.8 EVENT 5 8.9 0.0 EVENT 6 2.2 2.2 EUENT 7 2.9 EVENT 8 0.0



COMPOUND ID # R.T. LIMIT 1

MTBE 33.3 1.000 PPM 48.4 1.000 PPM 91.1 1.000 PPM BENZENE 3 TOLUENE 4 237.5 1.000 PPM 5 259.4 1.000 PPM ETHYLBENZENE MP XYLENE 318.2 1.000 PPM O XYLENE

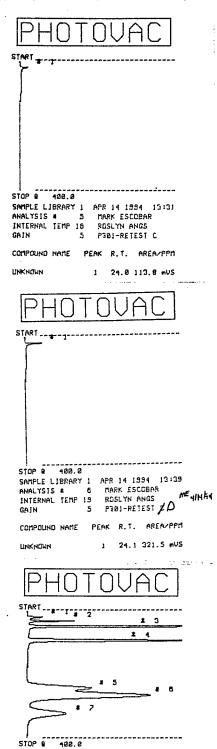


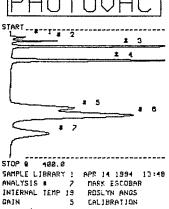


PEAK R.T. AREA/PPM COMPOUND NAME

UNKNOWN MTBE

24.2 118.7 mUS 35.1 51.87 PPB





UNKHOHH 23.7 342.1 mUS 35.2 740.7 PPB 51.0 787.5 PPB 95.3 715.5 PPB MTBE BENZENE 3 TOLUENE 245.3 757.1 PPB 267.5 683.5 PPB ETHYLBENZENE THE XYLENE 6 D XYLENE 325.1 666.3 PPB

COMPOUND NAME PEAK R.T. AREA/PPM

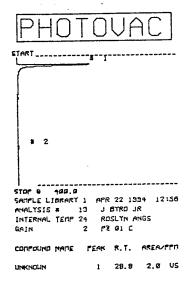
PHOTOVAC

CALIBRATED PEAK 3, BENZENE

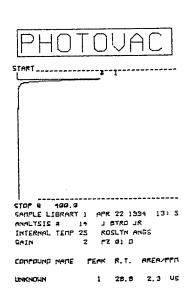
SAMPLE LIBRARY 1 APR 14 1994 13:50
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 19 ROSLYN ANGS
GAIN 5 CALIBRATION

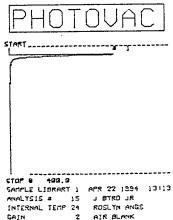
COMPOUND NAME PEAK R.T. AREA/PPM

חאגאטאא	1	23.7	342.1	#US
	2	35.2	940.5	PPB
MTBE	3		1000.	
BENSENE	3		989.0	
TOLUENE	3		561.3	
ETHYLBENZENE	5	245.5	501.5	600
HP XYLENE			867.8	
D XYLENE	7	325.1	846.1	PPB

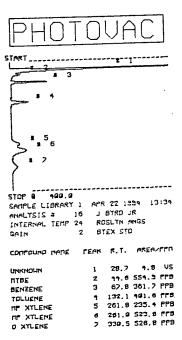


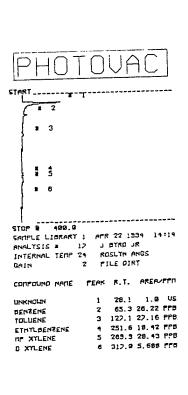
4 47 m





STOP 8 400.0
SAIPLE LIBRARY 1 APR 22 1994 10:13
ANALYSIS # 15 J BYRO JR
INTERNAL TEMP 24 ROSLYN ANGS
CAIN 2 AIR BLANK COMPOUND MANE FERK R.T. AREA/FFM 1 28.8 3.3 VS UNKHOLIN







....

SAMPLE LIBRARY 1 APR 22 1994 11:45
ANALYSIS 8 9 J BYRD JR
INTERNAL TEMP 24 ROSLYN ANGS
GAIN 2 BTEX STD GAIN

40 17 30

1.108 PPH 1.098 PPH 2.297 PPH 1.842 PPH ··**26 ME HERE 7V. 6 6 EV - 6 7

SUPPOSED HATE TERM FOR AREASTS A

CAL TRRATED PEAK 3. BENZENE

SAMPLE LIBRARY 1 APR 22 1994 11:49
ANALYSIS # 9 J BYRD JR
INTERNAL TEMP 23 ROSLYN ANGS
GAIN 2 BTEX STD

17.0 mare. e vot 1 mar. 0 600. b 006 2 mar. 0 1.000 PPN 2 mar. 1.120 PPN 2 mar. 1.105 PPN 2 mar. 1.055 PPN 2 mar. 1.055 PPN 1 mar. 1.055 PPN 1 mar. 1.055 PPN Law Swa ~~EE 35.414.5 SECTIONS
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OF CONSENSE
OF CONSENSE 5 37 11%

CLENDURG MADE I PELA KUTU AMERAANA

START _____ **3** 2 # 3

APR 22 1334 11:58

FIELD: 30 POWER: 25

SAMPLE 8.0 19.9 0.0 CAL EVENT 3 0.0 iaa a 0.0 EVENT 4 0.0 0.0 0.0 0.0 0.0 EUENT 6 0.0 0.0 EUENT 2 EVENT 8 0.0

> # 15 # 5

STOP & 100.0 SAMPLE LIBRARY 1 APR 22 1994 11:59 ANALYSIS # 10 J BYRD JR
INTERNAL TEMP 24 ROSLYN ANGS
GAIN 2 AIR BLANK

CONFOUND MANE FEAK R.T. AREA/FFN

1 28.2 687.6 mUS UNKNOUN 2 65.4 17.18 PPS 3 127.3 68.51 FFF 4 250.7 123.3 FFF 5 269.3 118.1 FFE TOLLIENE ETHTLBENZENE TP XYLENE 6 315.8 57.19 FFB. D XTLENE

COMPOUND : ID # R.T. LIMIT

42.8 1.000 PPM MTBE 65.2 1.000 PPM BENZENE 3 126.1 1.000 PPM 4 247.6 1.000 PPM TOLUENE ETHYLBENZENE 5 265.5 1.000 PPM MP XYLENE 6 312.0 1.000 PPM

COMPOUND ID # R.T. Limit

42.8 1.000 PPM MTBE 65.2 1.000 PPM BENZENE 3 126.1 1.000 PPM TOLUENE ETHYLBENZENE 4 247.6 1.000 PPH NP XYLENE 5 265.5 1.000 PPH MP XYLENE 6 312.0 1.000 PPM 0 AYLENE en same de l'ambient de la company de la company de la company de la company de la company de la company de la

LIMIT ID # R.T. COMPOUND

42.8 1.000 PPM MTBE 65.2 1.000 PPM BENZENE 3 126.1 1.000 PPM TOLLIENE ETHYLBENZENE 4 247.6 1.000 PPN MP XYLENE 5 265.5 1.000 PPM 6 312.0 1.000 PPM D AYLENE

* 2 # 3 # 4 # 5

STOP @ 100.0 SATPLE LIBRARY : APR 22 1994 12:36 AMALTESIS # 11 J BTRD JR
INTERNAL TEMP 24 ROSLYN ANGS
GAIN 2 PZ 81 A

CONFOUND NAME FEAK R.T. AREA/FFM.

1 28.8 225.1 mUS INKNOWN 2 131.5 19.43 FFR TOLLIENE 3 262.4 2.737 FFB TE XYLENE 1 281.3 21.82 PFB OF XYLENE

STOP 8 100.0
SATPLE LIBRARY 1 AFR 22 1339 12:90
ANALYSIS # 12 J BTRD JR
INTERNAL TERF 24 ROSLTH ANGS
GAIN 2 PZ 01 6

CORPOUND MADE FEAK R.T. AREA/FFT

FINKNOTIN 2 132.3 8.245 FFB 3 264.5 4.837 PPB TOLUENE HE XYLENE 1 201.9 13.89 775 TH XTLENE

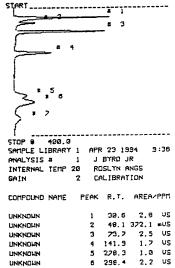
PHOTOVAC

APR 23 1594 5124

FIELD: 30 POWER: 25

SAMPLE 10.0 CAL 9.9 8.9 EVENT 3 103.0 0.0 EVENT 4 0.0 **2.3** 0.9 9.9 EUENT 8 0.0 0.0 0.0 EVENT 7 2.2 0.8 EUENT 8

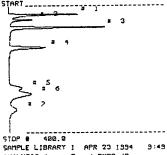
PHOTOUAC



PHOTOVAC

UNKNOUN

350.6 661.8 mUS



SAMPLE LIBRARY I APR 23 1994 9:4: ANALYSIS 4 2 J BYRD JR INTERNAL TEMP 21 ROSLYN ANGS GAIN 2 CALIBRATION

COMPOUND NAME PEAK R.T. AREA/PPM

 UNKNOUN
 1
 29.2
 1.9
 US

 UNKNOUN
 2
 45.7
 452.6
 mUS

 UNKNOUN
 3
 69.2
 2.7
 US

 UNKNOUN
 4
 134.3
 1.7
 US

 UNKNOUN
 5
 262.2
 1.1
 US

 UNKNOUN
 6
 261.6
 2.4
 US

 UNKNOUN
 7
 330.5
 714.9
 mUS

PHOTOVAC

1 COPPOUND ID # R.T. LIMIT

PHOTOVAC

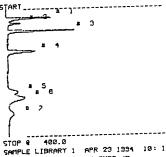
CALIBRATED PEAK 3. BENZENE

SAMPLE LIBRARY 1 APR 23 1994 9:53 ANALYSIS 2 J BYRD JR INTERNAL TEMP 21 ROSLYN ANGS GAIN 2 CALIBRATION

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOUN 1 23.2 1.9 VS
HTBE 2 45.2 1808. PPB
BENZENE 3 69.2 1808. PPB
TOLUBEN 4 134.5 1808. PPB
ETHYLENE 5 252.2 1.209 PPH
HP XYLENE 6 281.6 1.809 PPH
O XYLENE 7 330.5 1000. PPB

PHOTOVAC



SAMPLE LIBRARY 1 APR 23 1994 10
ANALYSIS # 3 J BYRD JR
INTERNAL TEMP 21 ROSLYN ANGS
GAIN 2 BTEX STD

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNDUN 1 29.4 1.2 US
MTBE 2 45.8 521.1 PPB
BENZENE 3 65.8 60.5 PPB
TOLLUENE 4 104.5 702.5 PPB
ETHYLSENZENE 5 260.8 750.3 PPB
MP XYLENE 6 281.5 726.4 PPB
20 XYLENE 7 308.8 733.3 PPB

PHOTOVAC

6 2 a 3

STOP @ 400.0
SAMPLE LIBRARY I APR 23 1994 10:27
ANALYSIS # J BYRD JR
INTERNAL TEMP 21 ROSLYN ANGS
GAIN 2 PILE DIRT C

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOUN 1 29.2 501.1 mUS
TOLUENE 3 133.3 18.58 PPB
ETHYLBENZENE 4 268.3 23.27 PPB
MP XYLENE 5 273.8 37.36 PPB

PHOTOVAC

2 # 3 # 3

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOUN 1 23.1 2.9 VS TOLUENE 2 132.3 4.313 PPB RP XYLENE 4 278.3 15.57 PPB

PHOTOVAC

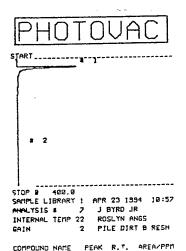
2

STOP 8 480.8
SAMPLE LIBRARY 1 APR 23 1994 10:48
ANALYSIS # 0 J BYRD JR
INTERNAL TEMP 22
ROSLTM ANGS
GAIN 2 PILE DIRT #

COMPOUND NAME PEAK R.T. AREA/PPM

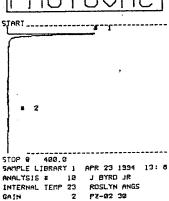
THE XYLENE

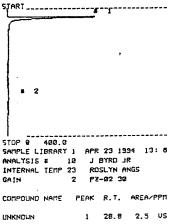
1 29.6 3.5 VS 4 288.1 5.331 PPB

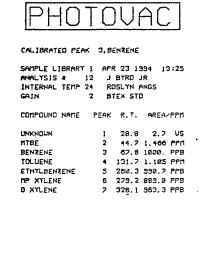


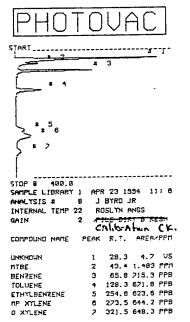
UNKNOUN

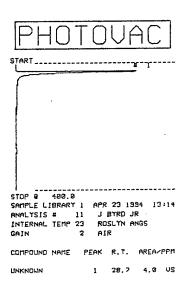
1 29.1 1.5 US

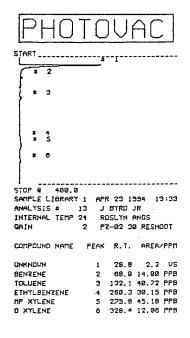


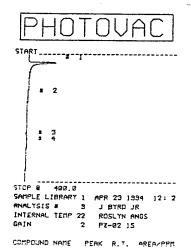












25.4 962.0 mUS 2 134.1 6.636 FP8 3 265.1 8.331 PP8

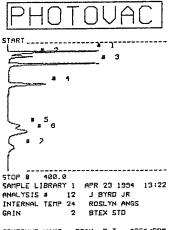
4 284.5 20.73 PPB

UNKNOUN

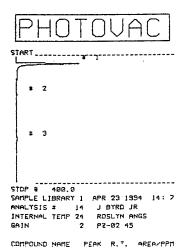
TOLUENE

MP XYLENE

ETHYLBENZENE



COMPOUND NAME	PEAK	R.⊤.	AREA/PPM
пикиопи	1.	28.8	2.7 US
NTBE	2	44.7	1.293 PPN
BENZENE	3	67.8	882.2 PPB
TOLLIENE	4	131.7	975.5 PPB
ETHYLBENZENE	5	260.3	874.0 PPB
MP XYLENE	6	279.2	284.3 PPB
O XYLENE	7	328.1	849.9 PPB

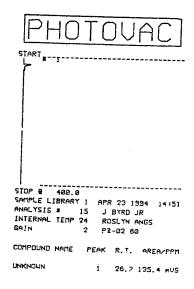


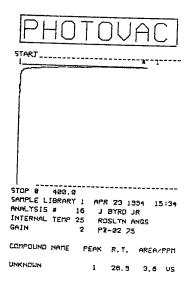
27.7

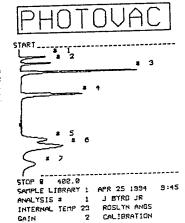
3 263.9 22.62 PFS

HNKNOUN

ETHYLBENZENE







COMPOUND NAME	PEAK	R. 1.	HIKEIN	
חאגאסהא	1	31.5	641.1	mUS
FINKHOLIN	2	50.3	€25.1	πUS
UNKNOUN	3	77.5	3.4	US
UNKNOUN	4	148.5	2.9	٧S
UNKNOUN	5	290.9	2.3	ŲŞ
NNKNONN	6	312.2	4.5	US

CALIBRATED PEAK 3, BENZENE

SAMPLE LIBRARY 1 APR 25 1994 ANALYSIS # 1 J BYRD JR INTERNAL TEMP 23 ROSLYN ANGS GAIN 2 CALIBRATION

COMPOUND NAME PEAK R.T. AREA/PPM

31.5 641.1 mUS NUKHONN 50.3 1.000 PPN 27.5 1.000 PPN MTBE BENZENE 3 4 148.5 1.000 PPN 5 290.9 1.000 PPM TOLUENE 290.9 1.000 PPM ETHXLBENZENE 312.2 1,000 PPM MP XYLENE 6

START _____ STOP 9 400.0 SHMPLE LIBRARY 1 APR 25 1994 9:58 ANALYSIS # 2 J BYRD JR INTERNAL TEMP 24 ROSLYN ANGS BTEX GAIN COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOEN MTRE

BENSENE TOLUENE ETHXLBENZENE

MP MYLENE

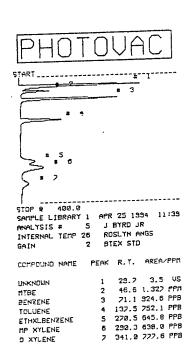
31.7 2.7 US 50.3 1.185 PPM

3 77.5 1.022 PPN 4 148.7 891.2 PPB 5 292.1 752.5 PPB

8 313.7 742.4 PPS

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STOP 9 400.0
COMPLE LIBRARY 1 APR 25 1994 11.10.
anelYSIS # 3 J BYRD JR
INTERNAL TEMP 26 ROSLYN ANGS
GAIN 2 UEG DIL
COMPOUND NAME PEAK R.T. AREA/PPM
UNKNOUN 1 30.0 144.2 mUS
TOLUENE 2 142.9 6.164 PPB 101.0ENE 3 281.9 14.56 PPB
EIRALDENCENTE
MP XYLENE 4 382.0 24.43 115

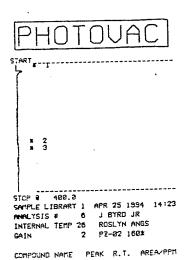
UNKNOUN



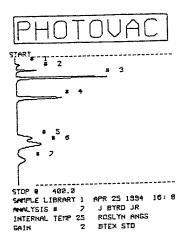
5 355.4 7.3 mUS



16.9 1.999 PPN nter 78.8 1.888 PPM BENZENE 2 3 135.7 1.000 PPR TOLUENE 4 265.8 1.000 PPR ETHXLBENZENE 5 285.2 1.000 FFN 6 333.8 1.000 FFN OF XTLENE 339.8 1.000 FPN D XYLENE

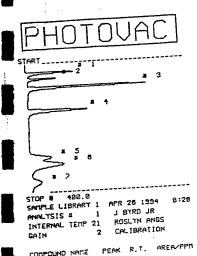


1 27.3 127.8 mUS INKNOUN 3 285.2 5.238 PPB MP XYLENE



COMPOUND NAME PEAK R.T. AREA/PPM 28.0 90.2 mUS 44.7 791.0 PPB THKNONN MTBE 68.2 919.5 PPB BENZENE TOLUENE

4 131.9 838.5 PPB 5 258.5 758.8 PPB ETHXCBENSENE 277.1 725.4 PPB 325.7 327.3 PPB MP XYLENE D XYLENE



COMPOUND NAME

DNKHOUN

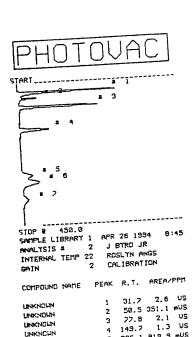
UNKNOWN

UNKNOWN UNKNOWN

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D XLENE

31.8 1.2 VS

50.6 652.1 mUS

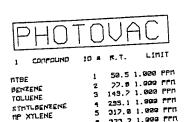
1.9 US

3.8 US

3 78.0 3.5 US 4 143.7 2.9 US

294.8

316.4



295.1 919.9 mUS 317.0 1.9 US

373.7 594.8 mUS

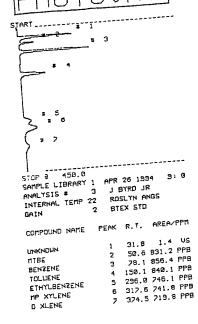
373.7 1.999 FFR

PHOTOVA

CALIBRATED FERK 3. DENZENE

SAMPLE LIBRARY 1 APR 26 1994 8:50 ANALYSIS # 2 J BYRD JR INTERNAL TEMP 22 ROSLYN AND ROSLYN ANGS CALIBRATION GAIN PEAK R.T. AREA/PPM COMPOUND NAME 2.5 US 31.7 1 חאאטהא

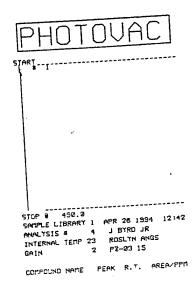
50.5 1000. PPB 77.8 1000. PPB MTBE 4 149.7 1000. PPB BENZENE 235.1 1000. PPB TOLUENE ETHYLBENZENE 317.0 1.000 PPM 6 MP XYLENE 373.7 1.000 850 O XLENE

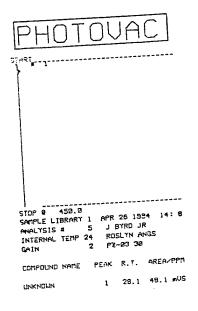


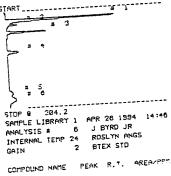
CALIBRATED PEAK 3, BENZENE

SAMPLE LIBRARY 1 APR 26 1994 17: 8 ,, 26 1994 3 ROCI Y. 1 ROCI Y. ANALYSIS # ROSLYN ANGS INTERNAL TEMP 22 2 BTEX STD GAIN

COMPOUND NAME PEAK R.T. AREA/PPM 31.8 1.4 US ロヌスさつにさ 50.6 970.5 PPB ntBE 78.1 1.000 PPN 3 BENZENE 150.1 380.9 PPB TOLUENE 5 296.0 871.2 PPB ETHYLBENZENE 317.6 866.1 PPB 6 MP XYLENE 374.5 840.4 PPB D XLENE

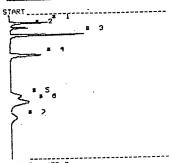






28.7 3.2 US 2 44.5 268.2 mUS 3 67.7 914.3 mUS UNKNOUN 67.7 914.3 mUS 132.1 472.6 mUS 262.4 319.2 mUS UNKNOUN UNKNOUN DNKNOWN UNKNOWN





SIDP @ 450.0
SIDP @ 450.0
SAMPLE LIBRARY 1 APR 26 1994 15:21
ANALYSIS # 9 J BYRD JR
INTERNAL TEMP 25 ROSLTH ANGS
GAIN 2 BTEX STD

COMPOUND NAME PEAK R.T. AREA/PPM

28.2 830.6 mUS UNKNOUN 43.9 331.4 mUS HMKNOWN 3 66.6 1.8 US 4 128.9 1.3 US 5 257.3 874.0 mUS UNKNOWN ロさえてロじさ **ロ**る天子のビネ 6 276.2 2.321 PPR 7 324.8 323.9 PFB ETHYLBENZENE MP XYLENE

CALIBRATED PEAK 3, BENZENE

SAMPLE LIBRARY 1 APR 26 1994 15:23 ANALYSIS # 9 J BYRD JR INTERNAL TEMP 25 ROSLYN ANGS 2 BTEX STD

COMPOUND NAME PEAK R.T. AREA/PPM

1 28.2 890.6 aUS
2 43.9 1.072 FFR
3 66.6 1000. FFS
4 123.9 1.166 FFR
5 257.3 1.073 FFR
7 224.8 1.169 FFR UNKNOWN MTBE BENZENE TOLUENE ETHYLBENZENE MP XYLENE D KLENE

S[ART______ **a** 3 # 4 # 5 # 6

STOP 3 458.3
SAMPLE LIBRARY 1 APR 26 1934 15:32
ANALYSIS 2 19 J BYRD JR
INTERNAL TEMP 25 ROSLYN ANGS
GAIN 2

COMPOUND NAME PEAK R.T. AREA/FFM

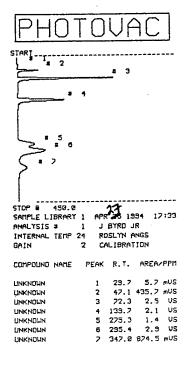
28.5 2.4 75 UNKNOWN 2 66.8 16.12 PPB 3 138.3 37.17 FPB BENZENE TOLUENE 259.1 27.39 FFB ETHYLFENZENE 5 278.2 44.66 FFB 6 326.9 9.717 FFB MP XYLENE D KLENE

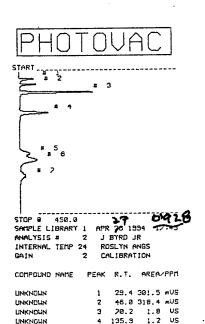
START _______ * 3 * 4

STOP 8 450.0
SAMPLE LIBRARY 1 APR 26 1994 15:49
ANALYSIS # 11 J BYRD JR
INTERNAL TEMP 25 ROSLYN ANGS
COIN 2 PZ-03 50

COMPOUND NAME PEAK R.T. AREAZPPM

28,7 2.6 US 1 28.7 2.6 US 2 131.9 6.581 PPB 4 282.8 4.127 PPB пикиоли MP XYLENE





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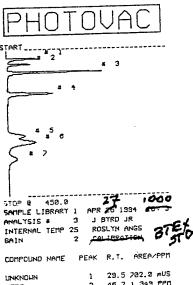
UNKNOWN

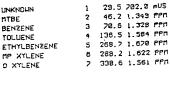
267.2 840.9 mUS

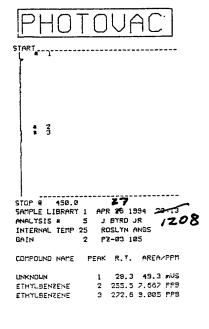
285.7 1.7 US

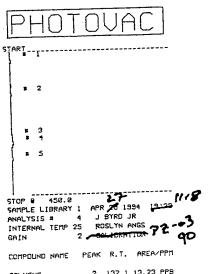
336.8 548.9 mUS

CALIBRATED PEAK 3, BENZENE SAMPLE LIBRARY 1 APR 8 1994
ANALYSIS 4 2 J BYRD JR
INTERNAL TEMP 24 ROSLYN ANGS 0969 ROSLYN ANGS 2 CALIBRATION COMPOUND NAME PEAK R.T. AREAZPPM UNKNOWN 29.4 321.5 mUS 2 46.0 1.000 PPM 3 '20.2 1.000 PPM 4 135.9 1000 PPB MTBE BENZENE TOLUENE ETHYLBENZENE 5 267.2 1.000 PPn 6 286.7 1.000 PPn MP XYLENE D XYLENE 336.8 1.000 FPM

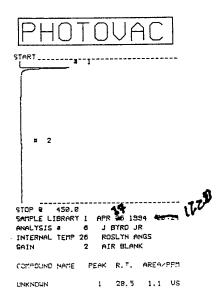


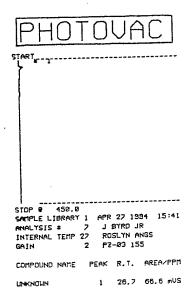




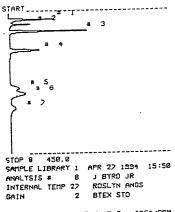








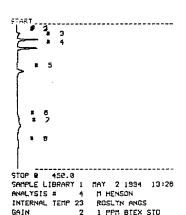
PHOTOVAC



COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOUN 1 27.8 936.6 mUS
NTBE 2 42.3 1.128 PTN
BENZENE 3 65.8 982.0 PPB
TOLUENE 4 126.1 939.8 PPB
ETHYLBENZENE 5 246.5 846.6 PPB
ETHYLBENZENE 6 264.5 1.662 PPN
MP XYLENE 7 318.4 261.6 PPB

PHOTOVA

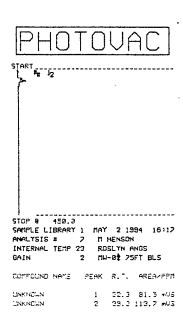


COMPOUND NAME PEAK R.T. AREAZPPM

2 1 PPM BTEX STO

UNKNOWN	1	31.3	50.8	nUS
UNKNOWN	3	52.5	489.3	mUS
UNKNOWN	4	22.6	514.9	mUS
UNKNOUN	5	149.7	291.1	mUS
UNKHOUN	6	295.3	74.5	mUS
ETHYLBENZENE	7	318.2	695.6	PPB
MP XYLENE	8	374.9	104.0	PPB

START ## 12 \$ 5TDP @ 450.0 SAMPLE LIBRARY 1 MAY 2 1994 13:43 ANALYSIS # 5 H MENSON INTERNAL TEMP 24 ROSLYN ANGS GAIN 2 MW-01.8FT BLS COMPOUND NAME PEAK R.T. AREA/PPM UNKNOUN 1 32.2 629.4 mUS

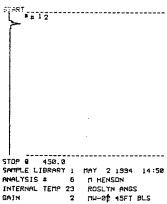


CONTOLINO

ntee	1	59.7	1.000	PPI
BENZENE	2	91.1	1.000	PPM
TOLUENE	3	176.2	1.000	FFR
ETHTLBENZENE	4	346.5	1.000	PPH
TP XYLENE	5	321.5	7.999	rrn
D XTLENE	5	436.8	1.000	PPH

37.2 1.0 US

UNKNOWN



COMPOUND NAME PEAK R.T. AREA/PPM

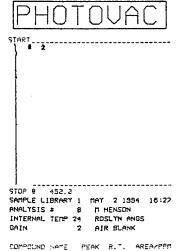
UNKNOUN 1 30.9 56.5 mUS 32.0 122.0 mUS

CALIBRATED PERK 4, BENZENE

SAMPLE LIBRARY 1 MAY 2 1994 13:28 ANALYSIS # 4 M HENSON
INTERNAL TEMP 23 ROSLYN ANGS 2 1 PPM BTEX STD

COMPOUND NAME PEAK R.T. AREAZPEM

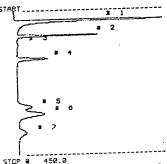
31.3 50.8 mUS UNKNOWN 52.5 5.489 PPM BENZENE 4 72.5 1.000 PPm 5 143.7 830.9 FFB TOLUENE ETHYLBENZENE 6 296.3 316.3 PFB 7 318.2 400.3 PPB MP XYLENE D XYLENE 8 374.9 396.1 PPB



1 31.5 2.5 mUS

UNKNOWN

PHOTOVAC



STOP @ 450.3 SAMPLE LIBRARY 1 MAY 3 1994 10:21 ANALYSIS # 2 M HENSON INTERNAL TEMP 25 ROSLYN ANGS GAIN 5 1 PPM BTEX STO

COMPOUND NAME PEAK R.T. AREAZPPM

UNKHOWN	1	32.2	5.2	บร
DUKNONN	2	79.4	1.9	US
UNKNOWN	3	125.9	3.4	mUS
DNKNDUN	4	153.3	1.3	V5
DNKNOMN DNKNOMN	5	204.7	1.2	US
UNKNOWN	6	327.2	2.3	٧S
PREMOTO	2	385.7	325.3	mUS

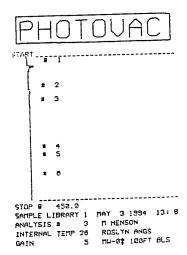
PHOTOVAC

CALIBRATED PEAK 2, SENZENE

SAMPLE LIBRARY 1 MAY 3 1994 18:25; ANALYSIS 2 2 M MENSON INTERNAL TEMP 25 ROSLYN ANGS GAIN 5 1 PPM BTEX STD

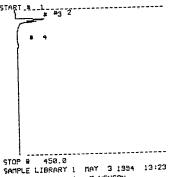
COMPOUND NAME PEAK R.T. AREA/PPM

ntbe	1	32.2	1.000	PPM
BENZENE	2	79.4	1.000	ren
DNKNOWN		125.3		
TOLUENE	4	153.3		
ETHYLBENZENE	5			
MP XYLENE		327.2		
D XYLENE	7	385.7	:200.	PPE



COMPOUND NAME FEAK R.T. AREA/PPM

PHOTOVAC



SAMPLE LIBRARY 1 MAY 3 1994 13:2 ANALYSIS # 4 MENSON ROSLYN ANGS GAIN 5 ML-07 MOFT BLS

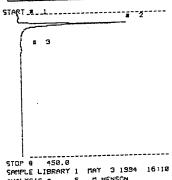
COMPOUND NAME PEAK R.T. AREA/PPM

 MTBE
 2
 38.3 161.0 PPB

 UNKNOUN
 3
 37.7 490.3 mUS

 UNKNOUN
 4
 186.3 11.2 mUS

PHOTOVAC



ANALYSIS # 5 H MENSON
INTERNAL TEMP 26 ROSLYN ANGS
GAIN 5 MH-01 100FT BLS
COMPOUND NAME PEAK R.T. AREA/PPM

UNKNDUN 1 13.5 13.5 mUS HTBE 2 32.8 816.2 FFB UNKNDUN 3 108.1 16.9 mUS

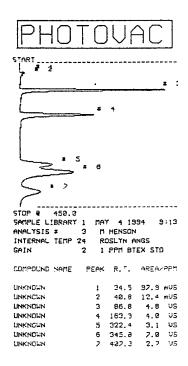


5TCP 9 450.3 SAMPLE LIBRARY 1 MAY 3 1994 16:39

SAMPLE LIBRARY 1 MAY 3 1994 16:39
ANALYSIS # 6 M HENSON
INTERNAL TEMP 25 ROSLYN ANGS
GAIN 5 AIR BLANK

COMPOUND NAME PEAK R.T. AREA/PPM

1975 | 2 | 31.3 | 141.1 | PPB | UNKNOWN | 3 | 37.9 | 335.0 | mUS | UNKNOWN | 4 | 105.6 | 7.3 | mUS

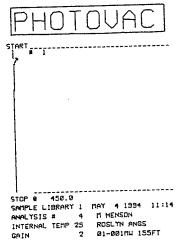


PHOTOVAC

CALIBRATED PEAK 3, BENZENE

SAMPLE LIBRARY 1 MAY 4 1994 9:17.
ANALYSIS # 3 M MENSON
INTERNAL TEMP 24 ROSLYN ANGS
GAIN 2 1 PPM BTEX STD

COMPOUND NAME PEAK R.T. AREA/PPM



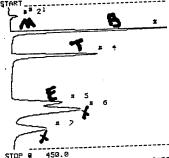
COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 32.4 188.5 mUS

LIMIT R.T. ID # COLLEGINO

49.8 1.999 PPR RTBE 85.8 1.999 PPN BENZENE 3 163.3 1.900 FFR 4 322.4 1.000 FFR TOLUENE ETHYLBENZENE 315.8 2,999 PFR IT XTLENE 407.3 1.000 PPH D XYLENE

*: :



STOP @ SAMPLE LIBRARY 1 MAY 9 1994 M HENSON ANALYSIS # ROSLYN ANGS INTERNAL TEMP 22

PEAK R.T. AREA/PPM COMPOUND NAME

32.4 182.4 mUS UNKNOUN 81.5 6.4 US NWKHOHH 3 4.8 US 5.0 US 156.7 INKNOUN UNKNOWN 332.0 9.8 υS UNKHOUN

CALIBRATED PEAK 3, BENZENE

SAMPLE LIBRARY 1 MAY 3 1994 3: 8 ANALYSIS # 1 INTERNAL TEMP 23 N HENSON ROSLYN ANGS 2 1 PPM BTEX STD GAIN

COMPOUND NAME PEAK R.T. AREA/PPM

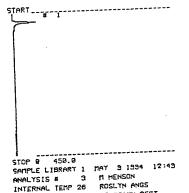
32.4 182.4 mUS מאאטטא 81.5 1.000 PPH 156.7 1.000 PPH 308.9 1.000 PPH BENSENE TOLLIENE ETHYLBENZENE 332.0 2.200 PPH MP XYLENE

START _____ STOP 8 450.0 SAMPLE LIBRARY 1 MAY 9 1994 12: 4 M HENSON ANALYSIS # INTERNAL TEMP 26 ROSLYN ANGS GAIN PEAK R.T. AREALPPM

NKNONN

COMPOUND NAME

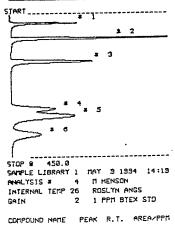
1 32.5 3.3 VS



93-991MH 35FT GAIN COMPOUND NAME PEAK R.T. AREA/PPM

ころ 不 そ 口 だ ヱ

1 32.5 511.0 mUS



TINKNOMN	1	32.2	1.7	υs
THKNOTH	2	79.2	5.3	บร
UNKNOWN	3	152.7	4.4	VS
DMKNOWN	4	302.3	4.3	US
UNKNOWN	5	325.1	8.2	VΞ
DINKNOUN	6	383.7	3.6	US
•				

CALIBRATED PEAK 2, BENZENE

SAMPLE LIBRARY 1 MAY 9 1994 14:21 ANALYSIS # M HENSON INTERNAL TEMP 26 ROSLYN ANGS 2 1 PPM BTEX STD GAIN

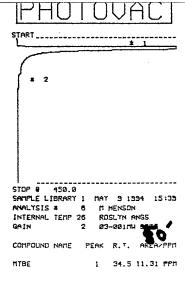
COMPOUND NAME PEAK R.T. AREA/PPM

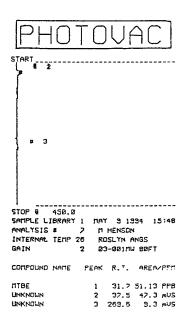
	1.600	
79.2	1.222	PPT
152.7	1.000	PPN
302.9	1222.	PPB
325.1	2,300	PPM
203 7	1.888	CCII
	152.7 302.9 325.1	73.2 1.222 152.7 1.222 302.9 1222. 325.1 2.322 383.7 1.222

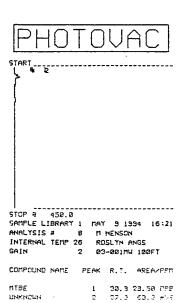
STOP @ 450.0 SAMPLE LIBRARY 1 MAY 3 1994 14:30 ANALYSIS # M HENSON ROSLYN ANGS INTERNAL TEMP 26 03-001MW 55FT GAIN

COMPOUND NAME PEAK R.T. AREAZPPH

33.2 36.22 PPB MTBE UNKNOWN 42.6 15.5 mUS







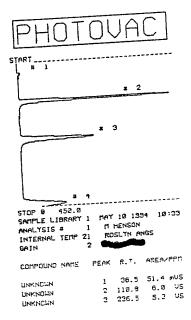
NAKACHA ·

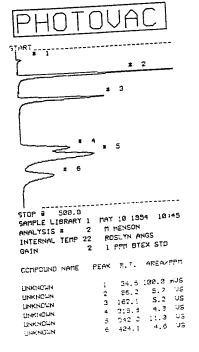
START_____ STOP 9 450.0
SAMPLE LIBRARY 1 MAY 3 1994 16:29
ANALYSIS # 9 M HENSON
INTERNAL TEMP 26 ROSLYN ANGS
GAIN 2 AIR BLANK COMPOUND NAME PEAK R.T. AREA/PEM 1 31.8 12.59 PPB 2 38.2 50.2 mUS MIBE UNKNOWN

PHOTOVAC

1 COMPOUND ID * R.T. LIMIT

| 1 32.2 1.003 FFR | 1 32.2 1.003 FFR | 2 75.2 1.002 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR | 100.000 FFR |



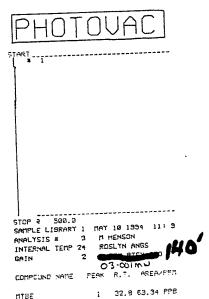


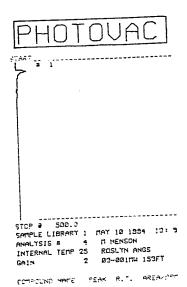
PHOTOVAC

CALIBRATED PEAK 2, BENZENE

SAMPLE LIBRARY 1 MAY 10 1994 10:48
ANALYSIS 2 M HENSON
INTERNAL TEMP 23 ROSLYN ANGS
GAIN 2 1 PPM BTEX STD

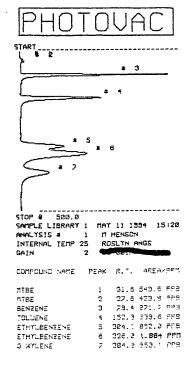
COMPOUND MAKE PEAK R.T. AREA/FPM





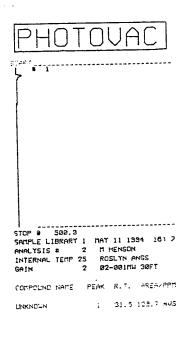
SESS

1 34.5 3.816 PPR



PHOTOVAC

CALIBRATED PEAK 3, BENZENE



PHOTOUAC

START

1

STOP 9 453.0

SAMPLE LIBRARY 1 MAY 11 1994 16:48

ANALYSIS # 3 M HENSON

INTERNAL TEMP 25 ROSLYN ANGS

GAIN 2 02-001ML SOFT

COMPCUND NAME PEAK R.T. AREOXPOM

: 32.5 3.4 mUS

MAY 12 1994

FIELD: 30 POWER: 25

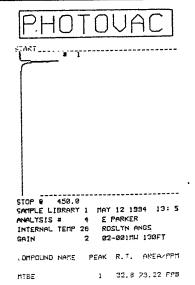
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CAL	8.8	8.8
EUENT 3	2.2	100.0
EUENT 4	9.9	0.0
EVENT 5	0.8	2.2
EVENT 6	0.0	0.9
EVENT 7	8.9	0.0
		0.0

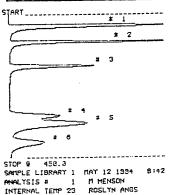
CALIBRATED PEAK 2, BENZENE

SAMPLE LIBRARY 1 MAY 12 1994 8:46 ANALYSIS # 1 M HENSON INTERNAL TEMP 23 ROSLYN ANGS 2 1 PPM BTEX STO

COMPOUND NAME PEAK R.T. AREAZPPM

MIBE	1	35.7	1.223	PPM
BENZENE	2	96.5	1.020	PPH
TOLUENE	3	162.9	1.000	PPH
ETHYLBENZENE	4	321.8	1.000	
MP XYLENE	5	345.2	2.000	PPI





COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN	1	35.7	11.5	V.S
UNKHOWN	2	36.5	6.5	VS
UNKNOWN	3	163.3	5.1	US
UNKHONN	4	321.8	5.1	V5
ロヌススのだと	5	345.2	11.6	บร

START I STOP # 450.2

STUP 4 450.2 SAMPLE LIBRARY 1 MAY 12 1934 18:22 ANALYSIS # 2 M HENSON INTERNAL TEMP 25 ROSLYN ANGS 02-001MH 85FT

COMPOUND NAME PEAK R.T. AREA/PPM

1 32.3 83.7 mUS UNKNOWN

5TART _____

STOP @ 458.2
SAMPLE LIBRARY 1 MAY 12 1994 13:15
ANALYSIS # 5 E PARKER
INTERNAL TEMP 26 ROSLYN ANGS
GAIN 2 AIR BLANK

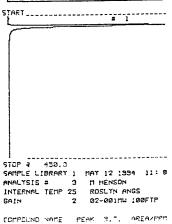
COMPOUND NAME PEAK R.T. AREAZPPM 1 32.2 25.48 PPB MTSE

CALIBRATED PEAK 2, BENZENE

SAMPLE LIBRARY 1 MAY 12 1994 8:44 ANALYSIS # 1 M HENSON
INTERNAL TEMP 23 ROSLYN ANGS
GAIN 2

COMPOUND NAME DEAK R.T. AREAZEPM

25.7 1.000 FFM SETE 2 36.5 1.000 FPM 2 163.3 1.000 FPM 4 321.8 1.000 FPM BENZENE TOLUENE ETHYLBENZENE 5 345.2 2.300 PPM ME KYLENE



STRE

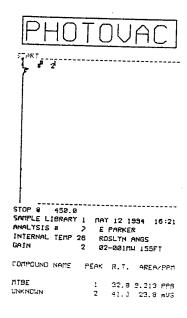
1 34.5 384.7 PPB

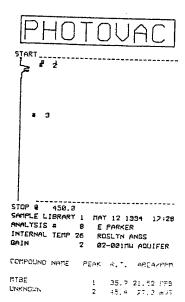
FRT # 1 STOP # 452.0

SAMPLE LIBRARY 1 MAY 12 1994 14:41 NHIFTE LIBRARY I AND ANALYSIS # 6 E PARKER
INTERNAL TEMP 26 ROSLYN ANGS
GAIN 2 02-001ML 145FT

COMPOUND NAME PEAK R.T. AREA/PPM

1 31.7 153.1 m/3 LINKNOWN

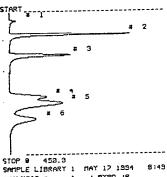




net 12 1994 8:24

FIELD: 30 POWER: 25

SAMPLE	8.9	10.0
CAL	8.8	0.0
EUENT 3	0.0	100.0
EUENT 4	0.0	2.2
EUENT 5	2.0	0.0
EVENT 6	0.0	0.2
EUENT 2	0.0	2.9
FUENT 8	Ø. Ø	0.0



J BYRD JR ROSLYN ANGS ANALYSIS # INTERNAL TEMP 23 BTEX GAIN

COMPOUND NAME PEAK R.T. AREA/PPM

RNKNOWN	1	38.3	118.1	mV5
UNKNEWN	2	74.2	4.0	บร
UNKNOPH	3	142.1	3.4	V3
UNKNOWN	4	271.1	3.3	ÜS
JNKNOMN	5	290.9	7.4	υŞ
UNKNOUN	6	341.0	3.7	US

ID # R.T. Linit בפוזרסטאס

BENZENE	1	74.2	1.000	rrn
TOLUENE	2	148.1	1.000	PPH
ETHYLBENZENE	3	271.1	1.000	FFN
MP-XYLENE		290.9		
D-XTLENE	5	341.0	1.000	
MP XYLENE	6	299.9	1.000	PPF

CALIBRATED PEAK 2, TOLL'ENE

SAMPLE LIBRARY 1 MAY 17 1994 8:59 ANALYSIS # 1 J BYRD JR INTERNAL TEMP 22 ROSLYN ANGS 2 BTEX

COMPOUND NAME PEAK R.T. AREA/PPM

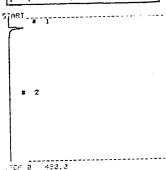
30.9 118.1 mUS INKNOUN 74.2 1.000 PPN TOLUENE 74.2 1.000 FFR 3 140.1 887.6 FFS 4 271.1 3.3 VS 5 230.3 7.4 VS 6 341.3 3.2 VS ETHYLBENZENE LINKHOWN **UNKNOWN** UNKNOWN

CALIBRATED PEAK 2, BENTENE

SAMPLE LIBRARY 1 MAY 17 1994 9: 1 SNEELE LIBRARY I J STRD JR
ANALYSIS # 1 J STRD JR
INTERNAL TEMP 22 ROSLYN ANGS
GAIN 2 BTEX

COMPOUND NAME PEAK R.T. AREA/PPM

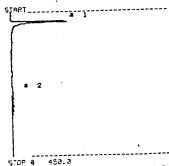
38.3 118. TUS UNKNOWN 74.2 1000. PS BENZENE 3 140.1 1000. 200 4 071.1 1000. 200 5 000.3 1000. 200 TOLUENE ETHYLBENSENE MP - KYLENE 341.3 1000. FFB C-XYLENE



| FOR 8 | 458.3 | 56HPLE LIBRARY 1 | HAY 12 1994 | 5:11 | ANALYSIS # 2 | J BTRD JR | INTERNAL TEMP 22 | ROSLTN ANGS | GAIN | 2 | HI-381

COMPOUND NAME PEAK R.F. AREA/FPM

1 32.5 351.3 mVS UNKNOWN



SAMPLE LIBRARY I MAY 12 1994 3:21 ANALYSIS # 3 J BYRD JR INTERNAL TEMP 22 ROSLTM ANGS 2 nu-022

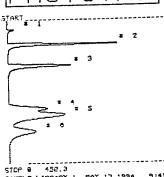
COMPOUND NAME PEAK R.T., AREAZPPM

1 31.3 1.6 US 2 243.8 12.00 PPB UNKNOWN ETHYLBENZENE

| STOP @ 458.3 | SAMPLE LIBRARY | MAY 17 1994 9:31 | MANALYSIS # 4 J BYRD JR | INTERNAL TEMP 22 ROSLYN ANGS | GAIN 2 MH-883

COMPOUND NAME PEAK R.T. AREA/PM

1 32.3 143.3 mUS UNKNOWN



STOP 9 450.3
SAMPLE LIBRARY 1 MAY 12 1994 9:41
ANALYSIS = 5 J BYRO JR
INTERNAL TEMP 22 ROSLYN ANGS
RAIN 2 BTEX STO

COMPOUND NAME PEAK R.T. AREAZPPM

1 71.7 128.4 mUS 2 77.2 356.7 FFB 3 145.1 1.046 FFG 4 293.1 1.081 FFG 5 232.2 1.085 FFG UNKNOUN BENZENE TOLUENE ETHYLBENZENE MP-XYLENE 351.8 1.041 PPN DHAYLENE

APPENDIX E AQUIFER SLUG TEST DATA

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SECTION E.1 INTRODUCTION

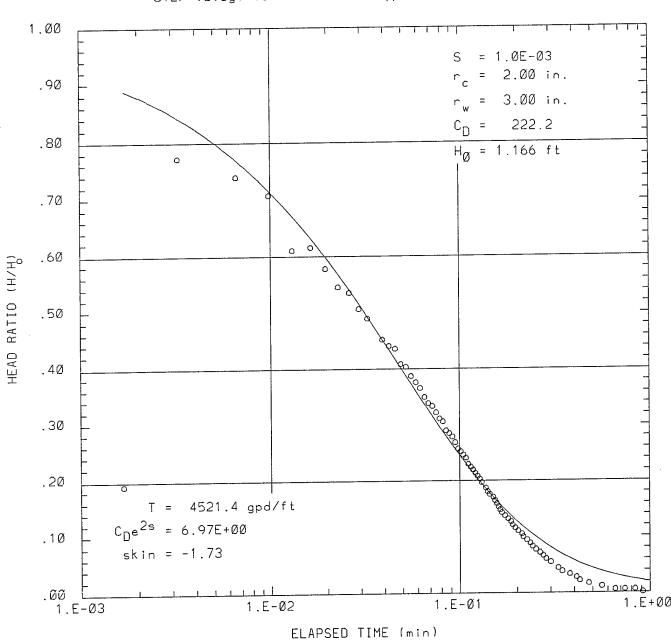
Three rising head slug tests were conducted to investigate the hydraulic properties of the Upper Glacial Aquifer underlying the Roslyn ANGS at Roslyn, New York. The slug test method is a technique used to calculate values of transmissivity (T). In the rising head slug method conducted at monitoring wells installed at the Station, a decontaminated acrylic slug, 2.5" in diameter and 32" in length, was lowered into the water column until completely submerged and the maximum displacement of water had occurred. After the water level rose in response to the slug, the water level in the well was monitored until it returned to the initial static level. The slug was removed from the well after the pre-displacement water level had been reached. The water level initially dropped as the slug was being removed from the water, and then rose back toward the initial static level in the well. The rise in water level was then measured at closely spaced time intervals. A pressure transducer and automatic recorder were used to collect data during testing.

Transmissivities were computed from slug test data using a software program known as STEP-MATCH which has been developed to automate the process of analyzing data from slug tests.

The raw data for each slug test and the curves generated by STEP-MATCH are included in this section.

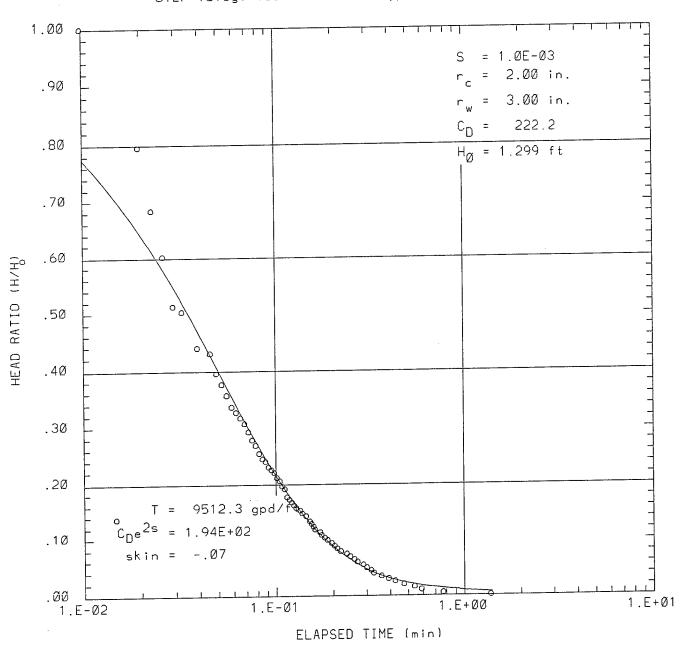
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Slug Test on Monitoring Well Ø1-ØØ1MW STEP (Slug) Test Automated Type-Curve Match (V1.2)



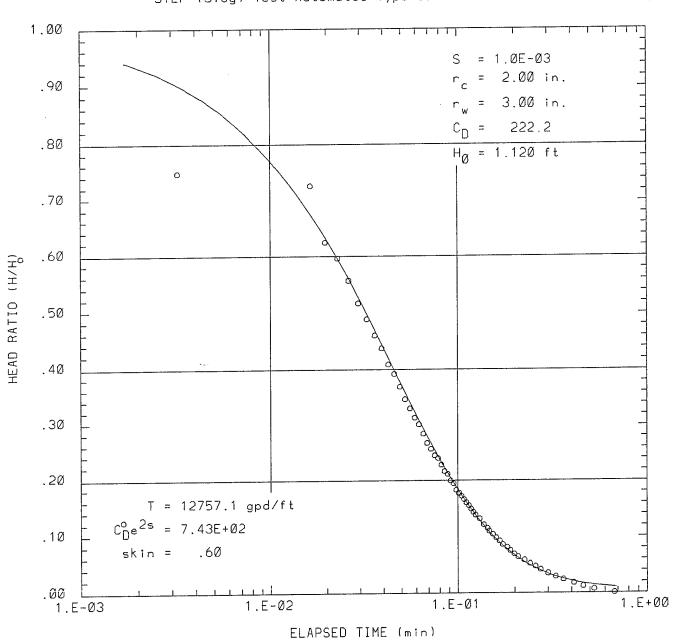
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Slug Test on Monitoring Well Ø2-ØØ1MW STEP (Slug) Test Automated Type-Curve Match (V1.2)



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Slug Test on Monitoring Well 03-001MW STEP (Slug) Test Automated Type-Curve Match (V1.2)



APPENDIX F

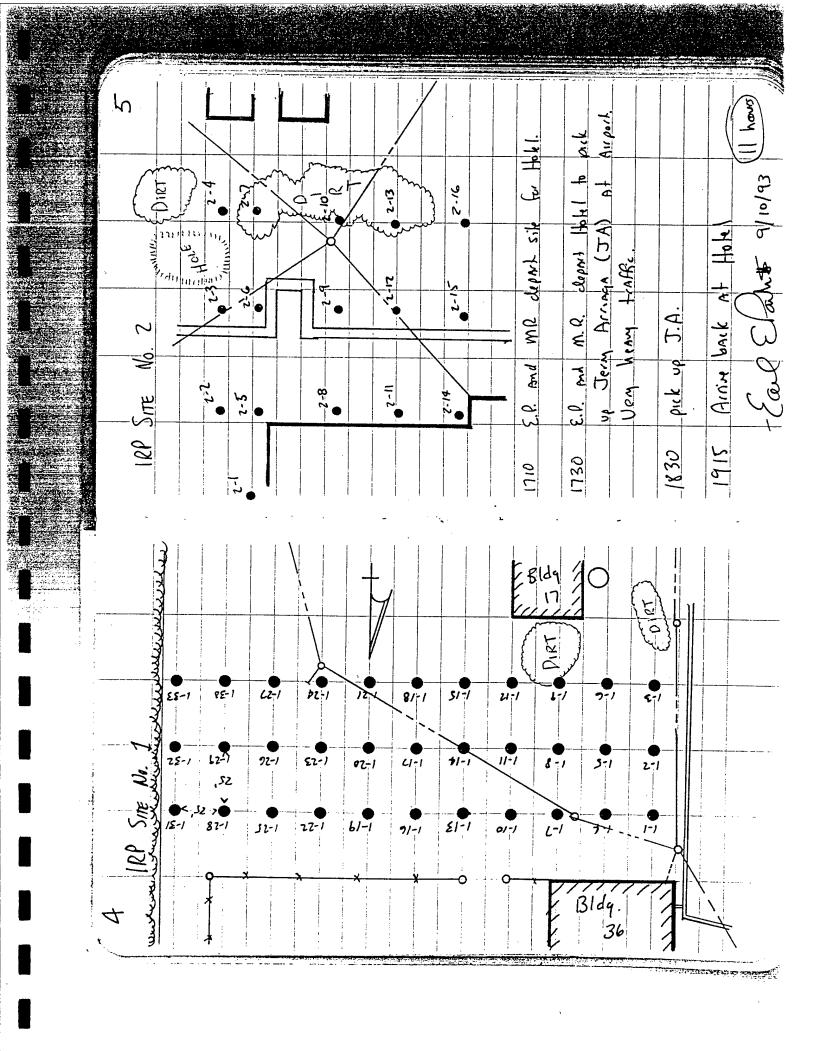
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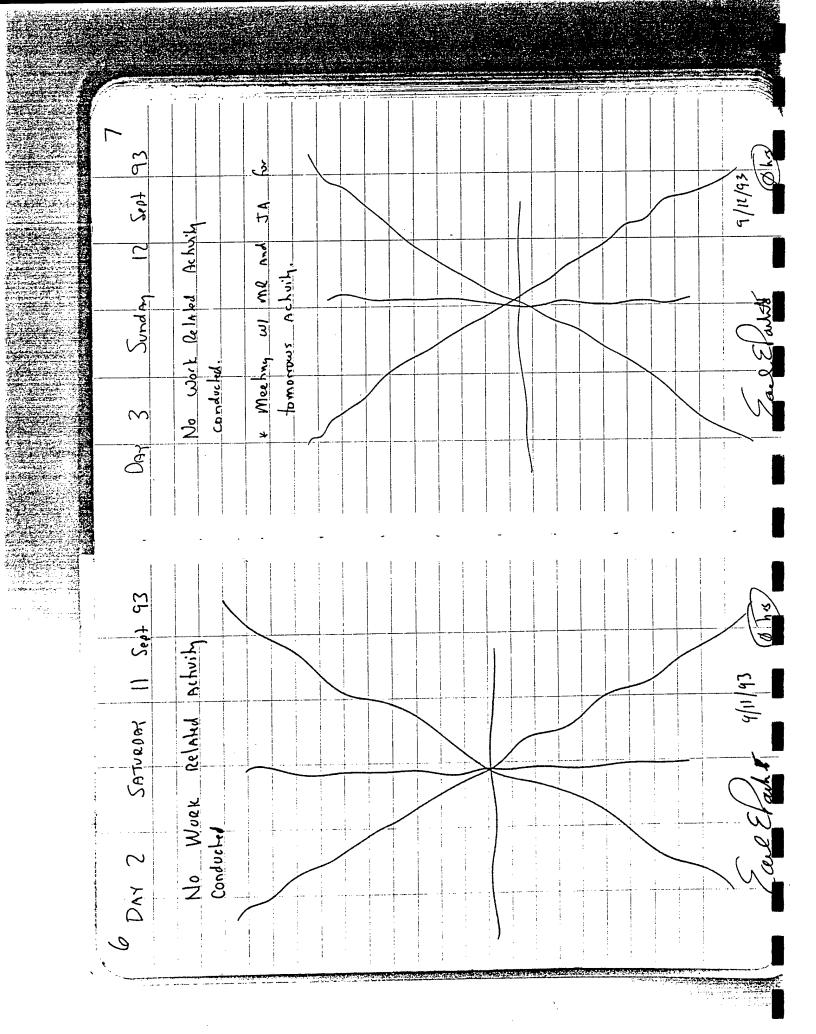
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	20 SGS Youts completed.	0730	E.P. M. and J.A. Acrise At the
	BEOIN Conkr now from the West Side.		Sik. SGS Team begins work on
		: .	South line of SGS Points on Sik I.
1600	Finished SGS points for the day.		Based on yesterdays wently at
	2		Sike # 3 two points will be moved
	Analytical results for the day	7	from the site I and to a though
			to delinitate sinall hil in 5it 3
:	Completed Site No. 3 - P points		
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			CAPAINC, 19 14yed Mondays SGS information.
1700	E.P. calculates SGS vAlues for the day.	0630	Avind of Notes Met. 11
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1830	Campiek work for the day	ato some	on Analysis olan and schodule Con
			them location and types of Analysis
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13	1330 SGS TRAWN COMPLERS SITE NO. 1. (Minus # 23 And # 29) WOWNS bock to SITE NO. 3 to SAWPIK new Point # 10 And # 11.	1401 SGS 40	1510 EP deports site to go to Bank 6 obtain Cash For payment to	1540 E.P. rebuns to site. J.A. Lonce with 2ero-Air. Mon to mensure SGS sints on Site No. 1.	\$ 20 J
21	Aby Sheeley took 8.P. on a tour of the NYTEST LAB. Meeting concluded with discussion of Methanol Calvery to tomorrow (wed 1/15) and Moetine a Manda (9/20) L	discuss the delivery schedule and volume, IIIS E.P. departs NyTest for Labor Site	1130 E.P. Arnius At Site. SGS Team Iraus for lunch. 1195 E.P., M.R. m. J.J.A. dopart site for	1215 Return to sile from Winch. SGS team continues on Site # 1. Driller	Ag Ain.

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15 (507 98		At 16 5.4.	1 WArm,	wind from E.	80.5		ON 31/6) vitini		,	Let hole		(Asing		,		pick up			At Sik No. 2
NEWESSA		E.P. M.P. And C.A Arrive	WEATHER: SURRY And WACM,			1	IEAM COATHWES	Ell, J.A. my MR stake		Sik No I and 3.	TAK Another W.L. in the Ted hole	or the Fort pumps.	<u> </u>	4.20	19.73 865	(METANO THE LAB	RETURN to BASE.	 E.V. And J.A & M.R. begin to borings And SGS points
DAY (9	0730 8.6.	WE					0810	Pool	<u>**</u>	0845 74						13 0160	111674	0935 RET	7.3 0101
	5 daily date	5,76	1/ 7/ 10	1. IRP Si# # 2.	,	dopAct SIK.	UAlms for SGS	1	,	th day.										4/93 /10 115
	SGS Team delivers	Acts 160	Completed 5 out	SGS points on th		C.F., J. H. And M.K. dupAct SIK	E.P. CAlculaks AM UAlms	points completed for the day		E.P. Finishus work he) C () A RE
4)	1630	:	:			C C 9 /	1700 8	٩		/855 8										\ \ \

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1400 Dr.	Dum when delivers 35 55-Gallon Dot downs.) (m)	Eac Sant 4 9/15/93 (10 hrs)

6	Envisormental Harreds, Our Lead	power, undergrand utility.	Emergency proceedures to include	ŀ	1 SI Sequen		1000 Drillers sol up over PZ 01,	Set Up decon Prea And Drepare	for drilling. Using CME 75 Drill Rig HSA.		J.A. Sats up Field GG For Analysis	during Pieromater drilling.		1100 BESIN drilling At PREZOWELL (PZ)].	0'-5' RS SAND, SIH, gravel, SIGHH,	damp. Bown Rolls HA	(005e 6a11.	5'-10'1305 - 5012-	15' Bcs -	15'- 20' BLS At ~ 17' BLS becommens	ven silly No	Balls into flom colvesium wass.	A	₹ 7
18 DAY 7 THURSDAY 9/16/93		0815 E.P. And M.R. Arrisa At Base. J.A. is	refreling van and obtained di-wake.	Go b Civil engineerung to FAX	Hune-sheets to S.A.	Walk Apromate sites Verify for			WEATHER	Frontal passage Cloudy And	RAIN All day. Breezy, winds		Hi - mid 70.5		OGGO SAFETY BURGING	Drillers Arrive on Site, Orienta hen		Jein Arringh & OPTECH	$\overline{}$	Robert Rugers)	David Vernice & South Machanics	Oxt Bremer		Discuss Sik And Continuant History.

25'-30' US - Recomment more Sondy 25'-30' US - Recomment more Sondy 20-35' 30'-35' 30'-35' 30'-35' Andy, 51/th, becomming slyth, 35'-40' Sondy, 51/th, becomming slyth, 35'-40' Sondy, 51/th, becomming slyth, 2.15' 31'-40' And Construct of marcher Collers broak for lunch and minst obtain. Drillers broak for lunch and minst obtain. 15. not good. Seems like prove water. 550'-55' Collers broak Seems like prove water. 15. not good. Seems like prove water. 550'-10' Collers broak Seems like prove water. 15. not good. Seems like prove water. 560'-65' Collers broak Seems like prove water. 1330 At 75' 66s. BEBW shandord. Shirt clean in the G.C. misst An bobtain Another BTEX Shandord. Stopped do.) At 1240.		
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35'-40' Sandy S./Hy, becomming-slysth, More silh, Grael, To marble \$72c, Alt 40' BCS, No wake yel. Dielling with 2,15' size Anger. Orllers break for Unich and myst obtain. A part for sham cleaner. Stat standard signified by Traver is not good Seems life pure wake. Stat clean in the GC. Mast thy to obtain Another BTEX standard. BEEW drilling again. Dielers returned At 1240.	Braun. Cogrse SANd. Moist	91 914 5.
35'-40' Smady, 51/ty, becoming 51/14/2. More 51/ty, 6/2061, to marble 5/20-55' 7/15' size Anger. Drillers break for Lunch and wast obtain A part for sham cleaner. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. STA And MR. go to Lunch. Start clean in the G.C. mast Start clean in the G.C. mast Start clean in the G.C. mast Start to bobain Another BTEX Standard. Start And And Mr. go and TS' 11 Start And And Mr. Bob and Mr. Drillers referred. Start And And Mr. Bob and Mr. Drillers referred.	SAME	PACT
Alt 40° BS, No water yet. Dolling, with 2.15° size Anger. Orillers break for Lunch and must obtain. A part for ston cleaner. Sh. And M.R. ge to Lunch. Shit clean in the G.C. Mast thy to obtain Another BTEX Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard. Standard.	Sandy, Silty	٠,
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At 40' BLS. No water yet. Drilling with 2.15' size Anger. Drillers break for Unich and must obtain A part for Skirm cleanor. S.A.A. And M.R. go to Curch. STA. And M.R. go to Curch. Shirt clean in the G-C. Mist thy to obtain Another BTEX SANdord. BEEN Crilling Again. Drillers retraved At 1240.	•	
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2,75' size Anger. Dr. llers break for Lunch and must obtain A part for skinn cleaner. J.A. And M.R. ge to Lunch. BTEX standard supplied by Trager is not good. Seems like pover water. Shit clean in the G.C. Must thy to obtain Another BTEX standard. BEAN drilling again. Drillers returned At 1240.	!	
Ocillers break for lunch and must obtain A part for sham cleaner. J.A. And M.R. go to lunch. BTEX standard supplied by Traver is not good. Seems like pure waker. Shit clean in the G-C. Must thy to obtain Another BTEX standard. BEAN drilling again. Drillers retirued At 1240,	2,15' SIZE Auger.	
cleamer. cleamer. for Courch. pplied by Trager like pover waster. G-C. Mosst cother BTEX (330		
A part fir stem cleaner. J.A. And M.R. go to Conct. BTEX standard supplied by Traver is not good. Seems like pour waker. Shit clean in the G-C. Must try to obtain Another BTEX standard. BEGIN drilling again. Drillers returned	Orllers brook for Lunch And	Cobble stand pAC
STEX standard supplied by Trager is not good. Seems like pure water. Shit clean in the GC. Must the to obtain Another BTEX standard. BEAN drilling Again. Drillers returned At 1240.	A part for show cleaner.	Marada
STA. And M.R. go to Curch. BTEX standard supplied by Trager is not good. Seems like pure waker. Shit clean in the G-C. Most try to obtain Another BTEX standard. BEAN drilling again. Drillers returned		65'-70' Control in grAvel. No recovery
BTEX standard supplied by Trager is not good. Seems like pure water. Shit clean in the G-C. Must try to olotain Another BTEX standard. BEGIN Chilling Again. Drillers returned at 1240,	J.A. And M.R. 40 to (on the surface.
is not good. Seems like pure water. Shit clean in the G-C. Must try to olotain Another BTEX standard. BEEN Chilling Again. Drillers returned At 1240.		70-75 Beginning to get gravel (cobble
Shit clean in the GC. Mist ty to obtain Another BTEX standard. BEAN drilling again. Drillers returned At 1240, Hu h	is not good. Seems like over water	return of the surface.
try to obtain Another BTEX standacul. BEGW Chilling again. Drillers returned At 1240,	Shit clean in the G-C. Misst	Well munded to sub Angular
Standard. BEGIN Chilling again. Drillers rehowed At 1240, Hu h	try to lobtain Another BTEX	cobble up to 2" in diameter
BELIN drilling Again. Dallers rehand		
BEGIN drilling Again. Drillers rehowed At 1240,		
-	BEGIN drilling AgAIN. Dri	
•	:	The boke
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52	NASSAU COMP, Reblic Works clopt. to	obtain recont w.c. information on	obsavation will N-11964 completed in	the upper special Aguilde. Information	obstained indicated a waler Level	WAS 49 LAN ON SOAT 8, 1993:	WAter = 56.26 Above MSC		Since our sile is 3,500 feat enst	of the well of An elevation of	200' Above MSC , WARE WAS	It laly to occur At 144 below	And surface of the sile.		Cpt Johnson was suprised by this	in formation, stating that tost	borings for the day wells constructed	near the site indicated water	to occur ~ 50' below I And surface.	He probably encountered a peacehed	WAK TABR.		0910 Phone CAIL to Bill Nealon At	ANGRC WAS not in. Left A	hrist message.
24 DAY 8 FRIOAY 17 SEPT 93		0700 E.P., M.a. JA Ariver At the S.K.		WEATHER: RAINING HEAVY At	Some Intervals Temp lower 60s.	Formst is for Cloudy skys	with intermittent showers All	day. His in the lower 70s.		0730 Dilles Arome. Discussion of	groundwake situation rysults in	A tentahin decision to sho	drilling on PZ 1. The lAb is	not ready to begin soil sampling	Aday so we will do no dalling.		0805 E.P. decides to continue deilling on	PZ 1 AS deep AS feasible to	Attent to locate water in the	well. Deposits deilling laston to	ahone Bill Nealon and delain	marby water level intomation.		0900 Phongel Ken Fischgrom Bl 114	.

54	Atim amity	J.m) will con	distuss the groundwater program.	Cartinal to track on somoline	fac Soil Samply	Mond An													2 12 02
82	will obtain: Octobed	FIELD BANKS	FIELD DIDUINTES	MS/MSO	Total of 45 samples.	4	Puther sampling will be developed Althe	Consultation with ANGRC.	12/5 (wich	300 Back of hok!	+ Develop SAmpling details and	set Asich Labels and Chain-	ot- (ished) forms for monday.	Dewly sleeve count for decon	pacty	1600 PHONED ANGRE FOR RICHARDON.	He is not At his closk	700 PHONED JOHN MORRIS. DSINSSED	options for drilling program,

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ORY 10 SUNDAY 19 Sd 93	Sample parkedes by working	Wake out (ables, cut letten tope and aluminum foil squares and labled 2:p- Cock bags	Debermind whom QA/QC samples would integrate Into sampling	
18 Sept 93	107-b)	Cut Flomiaum	A/QC in	8-33 (Ass)
SATURDAY	d in Hotel on le pockages for Sompling, Mon (o	abbs, anoms And	and when QA/QC s would integrate sampling pagram	5
DAY 9	* Worked SAMPle Soul	Wak out Le teflon tope S Foil Squares Zip-Lock BAS	Delermined Samples into sam	
40				

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32 ORT 11 Monort	700 MR And EP Arrive up decon Area	2705 Orilling At Sik	1720 J. A. Arnuer A 1CE CHEST And	Sol	Tein Parlor	MAN. Stews.	g Will g

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33	(# #IS					,	1 40		2.5.7	5.5 - 6.0 6.0' - 6.5'		No	S:14.
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	34	:	[nkna		1	1	S	7		400				0400	02	717		:		
,			7	~ · · · · · · · · · · · · · · · · · · ·		destinated to	continues s				Section 2	fa sionara			(See See See See			en e	\$\$\$6756-5	543 Y

37	Dark bown, day, very poorly sorted sandy and grand fill makerial.	2.0	6.0 - 6.5 1. 0.4 A	dark brown, very poorly socked sitty sand. Medrin to fire grained sand we sitt and	0.01 - 11.5	1.0-1	Down, poorty socked Medium to Fix grained Silty SAND with well rounded medium	Mostly pools sorted sand. (035 Complete Bartale 03-002 BM
	[Actual] 10.0-11.5 FIELD WOLLDTE (Actual) 11.0'-12.5' BLS Pushed below the (0.0-11.5' Interna)	570 obtain duplicate sample	2 - 10,50	Hendspace: 21,6 1 Hendspace: 21,6 1 1-poolly sorted sand	1: He sill. Contains fewer well nounded gravel And colobles.	0945 Complek 03-004 BH Mow to 03-002 BH	1010 Beew 03-002 BH	15 - 0.0 - 0.5" 15 - 0.50 - 6.0" 15 - 1.00 - 41.5" 0000 Ozum: 0.4 PM

and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th

	Inkno! 10.0:- 11.5" BUS	570 - 0.01 55 July 5	5 7	Jan 5000n 7.7 11.0-11.5	SpACE : 3.4	1944 brown fire to medium sand u	im stad, well aunded	few large gravel and small cabb	githins. Very possily socked sand And go	drilling on	Vaillers Wark down And go	1715 And FIELD BLANK # 1.	BEGI	Site Bogin to P.	(235 Phone John Monis in	Sm Autonio.	end the chilli
28	1045 REGIM OF 03-006 BH	03-006 BH	LnArval 0.0- 1,5 865	11 0.0 - 0.5	9 0.5 - 1.0	Open Spoon 6.7	5.1	Makeral with land	pebbles. Small cobbles present. Much	fim sand and silt,	Internal 5.0'-6.5' 825	50 CE		3	Headspace 6.3	Very poorly sorted, brown sand w	fire SANG. Mostly medium SANG and SMAII

	And SAmple At 5.0'	Internal 10.0' - 11.5 865	10.0	21 11.0 - 11.5	5.9 1		[17/Rrus/ 11,5-13.0' &LS	MSI MSO Samolo	,	-0.5	26 17	No handspay or Field GC SAMple.		Same but 1. Hlo Sitt. Abundant	sunded to sunded	Calable stad nackelos (low moths	SAND, Light BOWN.	
0.	The Can	Will not drill BG busings or	ep borings	300 Proprie to Sample 03-003 BH	Record	m/ 0.0'- 1.5'	\$ 0.0-	9 0.5-1.0	Spoon Open : 4.2 PM	Herdspace G.3 PPM	poorly socked, dack brown	Scare And Small Colables. Dry, mostly	nedium to fine grain sand w	KNA1 5.0'- 6.5' BLS	5,0.	3 6.0 - 6.5	7	Wood obstructed sAMpler.

43	1500 BEGIN to work on Chain-of- Cushdy clocumonshin and Sik	1630 Pack up And deport 5:4 Por (48. E.P. And J.D. 90 to	de parts for Hobel to write letters for HRS information.	1640 E.R. and J.A. Acrows at 185 And Turn in Samples. Inform	that Soil Samples will have	AMAlyze until grown the Mikice to proceed by OPTECH.	SAMPLES to KYTEST, OBTAIN OUT CODIES OF The Chair of	Custady And dopart (AB.
42 (n/2/12) 5.0-6.5"	507 3 - 5.0 - 5.5' 5 5.5' 6.0' 4 6.0' - 6.5'	Jen dark, organic rich silly sand.	Well rounded gravel with Abundant Wood Fragments. Leaf And wood Fragment Abundant. Arge gravel	•	1915 Conclude drilling At 180 Sik Nb. 3 by Flinishing 03-003 BH, Will	not drill doep borny (03-005 BH) At this time, Orillers begin to clear up sik, Gout holes.	440 Drillers clopart Sik	E.P. M.R. +ALD Equip BLANK AND

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	pt 1993	9- S -e	Bugin h	ē	tarp to set work shows.	fill rain stops.	H Dais	1h A1	15 SARA COMPLANCE.			to centain	. ·	1960 1960 1960 1960 1960 1960 1960 1960
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	12 TUESDAY	S.P. And r	Drillers Arrive	L A B	RAINING S	00) (enin		Tairgak SARA	New dvilling,	100 JAN		f.//.	9 .	of Chaccoal. V
	DAY	070	0703		0705		CALO		Bore hale	Inkwa		81Ack	physical	to /
		7 (m) Tue			See									Say 2)
		Ks on Finalize	t w/		H. to S. Analy 515		day.							8-50-8
		Doling DAC	121), Spen	this tim	1/2 of	9	1 for the							and
	44	7,3 0005 SAM	(9-21), Spen	A7 0	mo W	Poing	2130 End							S Geo S
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46	47
Inferral 0.0-1,5" 8LS	Inkual 10.01-11.5" Bes
	T (6 ° 10.0
0.1 - 5.0 - 82	30 -
5.1 -0.1 - 62	40 - 11.0 - 11.5
Open Spoon 6.8 ADM	Open Socon: 4 0 PPM
	٠.
9 9	Ven poorly sorted road, Sitt. Mostly
ChA	Consolidated Silt nodules with five
MA Persol. No odor. Da ven	SANd. Cantains grave! And well rounded
Sor Kd MA KriAl.	Small cobble Dacheles Some majorm
fix grained. Mon-	And small graw!
SAND With Abundant	Sorted.
	1045 HRS Complete work on 01-00484
Internal 5.0-6.5 BLS	May to 01-003 BH
5 - 6.0 - 6.5	1100 BEGIN Dilling 01-003 BH
Open 5000n - 7.9 PPM	-
Hendegase - Not obtained (No sample for GC)	
Minimal Recount. On good	20 - 0.5 - 1.0
5/ASS 5/08WE.	15 - 1.5
- DArk, organic rich sand Ard	Open Spoon - 8.5 PPM
fill Whokish w/ Abundant	(-landspace - 7.5 PPM
wood And wood chips, few	Ven poorly socked dock brown Fill.
(Arak COAL DArticles.	

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5	1130 hrs Complete 01-001 BH Finished sampling At 12P Sit 1.	Set up an 02-001 BH	1135 EQUIPMENT BLANK #3 FIELD BLANK # 3	1200 BEGIN dilling At 02-0018H	5 .00.	Open Spean 0.0 PPM	Very Clark brown to black, weny poorly sorted sand Contains some sill,	mudium sAnd to small, well reunded	2.0	24 - 6.0 - 6.5
95	Dy, very poorly socked silty SANd. Mostly fire to medium sand	COPISE GLAVEL. Very Angular Gravel, Appears to be fill making			33 - 6.0 - 6.5 Open Span : 0.0 PM	Very poorly sorted coarse to medium Silty sand. Mastly sand in sitt and	growl. Some swall abbles preent	Intervel 10.0-11.5 BLS	- 51 - 51 - 51 - 51 - 51 - 51 - 51 - 51	JPRUSPOON 7.3 pm

25						•
	Light bown, very party sorked	ps 21		Finish At 02-001	0	1-001
S	SANd. Silty with Abundant well-		P	to 02-0028/8H.	SASS	.H.
C	bunded gravel. Mostly A appelle				28	જ
25	socked silty sand with gravet	1310		Phoned John Morris.	ha M	erns.
y	ind small cobbles. Day, No odoc.		Drock	proceed with Hand	Y Y	Ind 1
	-		ANA	Analytical work. The	work.	12
4U7	[n/e/val 10.0-11.5 BLS		pr pr	be released after	BV P	er t
			finished	4 6	by Lud	will b
			Thursday			1
	22 - 11.0- 11.5	-	0200	1		Can his
	NO RECOVERY WILL MEH MEH			1		
	Al. Vary grAvelly. Bu	1320		BEEN Dilling		f\$
	in sleews.	.	Interval	# /01	 	0.0
	- 1		ζ.	SPT	4	0.0
Infourt	11.5-13.0 BLS	•			5 -	0.5
	11 -				5	1.0'
	25 - 12.0-12.5			Oden Spoon	2000	·-
	20 - 12.5-13.0	,	I	-lendspage:	. 9	18
	Open Speen: 0.0 Ppm		Oclor.		petroleum	opo
	Hendipace O.O PPM		And when spoon opens.	- Spoc	_0 	215.
7	ight to medium bown, Ven	()A()	OArk GOWN	م ا	la black	787
Or Or	poorly socked sand. S. 11. both	Sorted		1	Some	₹.is
W	Medium And Copise sand with	COPISE		to medium	-04	SANd
3	Donaled	We	browna		वत्त्रस्	
6	grawl And cobble.	ı `				

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53	**	as h	is on 1940	program.		
	BH. MOUNY	Mornis. Informed of MANCE AND AND AND AND AND AND AND AND AND AND	this boing	02-00# 817 02-00# 817 0-1.7 565	10° 15° 15° 15° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10	ador At hole very poorly lt, mostly d with
	\ <u>\bar{\beta}</u>	Munis. Hand Aug		an fin	0.5'- 1.0'- 13'8	2 A A S S S S S S S S S S S S S S S S S
	44 200-	John with	of but will	160 // 100 p		لہا نمری ادے اوکا خ
	Finish to 02	Phons d proceed Analytic	be roles Finished Thursday.	BESIN / Interval	Open	Oclos - petrole and when spoon bown to blad of sand. Some
	p52	1310		1320		Onrk Onrk Sorted Capise

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		FIELD Delicale	2 2 2	_Z	4. 4. 5. Turn-in 5. And 1.
		6.0 PPM		ذا الصالا	
		3.0	Very poorly standing of good recovery.	drilling. Hers brake	
*		Spoon Spoon	2 d d d d d d d d d d d d d d d d d d d	drilling. less bas	
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					San L
			B 8.11.	, ,	
		Ag AI'M.			16 - 11.0'-11.5' 10 Spoon: 0.0 PPM 4650ACE: 0.0 PPM (15/11 brewn poorly socked Fire to medium sand well nornded small I Mo odor. Shishty
		ا ال	13 - 6.0'- 6.5' Open Span: 0.0 PDM Nedspace: 0.0 PPM Sackd sith sand. Mostly fine to medium sand w/ alst of	1.5 / BL	Don Spoon: 0.0 PPM Spoun to Light brown poorly sor Silt with fire to medium stall Auge grant particles. Slight Maist. No odor.
		5.0'-6.5' (6.0' 6.5 6.0' 6.5 1 0.0 5.00 5.00 1.00 1.00	Minimum Minimum 10.0' - 11.5' 1 - 10.0' - 10.	11.0'-1 : 0.0 0.0 0.0 wn pool wndd
		5.0	6.6. 8: 6.1 1.59nd	fewer grawl particles. large particles. Minim Interval 10.0'-11 507 19 - 10.0	Opin Spoon: O.O. Opin Spoon: O.O. Own to Light brown pointly fire to me Ontains well rounded Arge grant particles. Maist. No odor.
		Interval 5.0'	5 - 5 15pac 15pac 5;1h	5. 10.0	Spoo Spoce Shtb fra 1 pa
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		1 knal	Sac	wer graw ge parte Interval	Bown to Contains to Conforms of Maist.
		25	bootly in	Aige	South / Art
;	54	1328			
	S. A. Hannard		7 19		

DAY 13 Wednesday Sept 2	? Acrives At the Sile	J.A. is At hoke conney sa	14 N		Cloudy to pAINY cludy "	chang of light showers	Som soil my chance Ar	to goot	0840 BEGIN DRUM Inventory.	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 00	(3) Suil Cuttings 01-001 B	(3) Soil CHing, 01.003 B	01-004 81	
95	18-30 BEGIN Final Clean-Up.	1600 E.P., M.R. And S.A. dypart sile	for LAB	1550 DEPART LAB RC HOLVI		2000 Work on Sample Inblor Por HAnd Augor sites, Held J.A.	C. Phond	2200 Done for the day.							5.05 Jaha 9/21/93 (11 hours

14: - 70.5.

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drums.

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	53	1000 Drill ENEW begins MIOVING downs to	\$ 48 500.071	of pupulation in formation to the Civil Engineering to	1050 W.R. obtained disk for Civil Engineering.	s sik fr. hokl. (1115 Drill Crew completes moving drums. Checks out And departs	Q	1245 Return to base. Preparing to Obtain Hand Auger borings.
		03-003 814	03-006 BH	03-001 BH	10-20	DECON Station	Down Strage Ara.	drillers use	
· · · · · · · · · · · · · · · · · · ·		Soir Cuttings	SOIL CUTINGS	Soil Cutings	Soil Cutings Soil Cutings	WASH WALL)	Wash Water 1 Emply clams in M	WATER Transport Drum Orum on Orillers Tr Grout Orum	ToTAL
	28		3	(9)	(2) (3) (2)		1 ! !		ال ال

1330 Set up clocon station And prepare to collect Equipment Blank prior to sampling.	0800 E-P. to stay At Hotel to obtain estimates for well construction for the groundwater investigation.
golpment Binak	The groundwater investigation.
614	-3
FIELD IXANK TO S	obtaining hand Augers,
1935 Missiny Soil Sample Contrainers.	0810 Thone to Soan Walters, Eur. Gord
by mistola yeste	14 ANGB Gim him your
Obtain more containers	well installation Superty to talk to
	L L
540 Begin to obtain soil sample	
77.006 RH DO: 05' 0'6 11'	0830 Phone to John Sugartment At NYSDEC.
socted sith sand with Abandant	
!	Mud, or Cable Tool rig
hArd 9	nnot we percussion
MANOL AGECT. Altowater to	pass this internation to deviller.
	0900 Phoned drillers For estimates in
no ake.	3 Piezometo
700 (Abandan, 1. le fic th, 144 50 m 0 1	Soil Mechanics - Vina Nantista

83	J. A. And M.R. WR Are Able to bypo		5.5Am (250 Country or 2016 grave)	6.5 PPM 1415 1415 1	and internal 1435 BEGM on 02-008 AH	Dack bown to black Uery positify sand with charcoal for	40.8 PPM · Odor Poolly Socked sand. Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula graves: Angula g	ocká sandy sitt. odor. Cannot perent hole at 02-005 BH Cannot pereknle gravel internal. Moving I.S. nocth and cast.
29)	sile. Hand	Completed 02-006 BH.	02-006 BH 0.0'-0.5 BLS - 1.2 PPM	102-007 BH 50'-55' BLS - 6.5 PPM - Moist, bown 511th SAND. POOLY SOCHEUL	J	Once brown to black poorly socked Silly sand with charcoal fill fragments. 1035 BEEN on 02-00484.	22-004 64 0.0'. o.s' 815 40.8 PPM . Odor. Dark bown very poorly socked sand. Silly sand with angular graves.	1120 More boxle to 02-004 BH Interest 2-251PM 1120 More boxle to 02-006 BH with odor

1100 Staking out pomts AT 1RP Sit No. #3	1240 GAPAT Sik For HOW!
ite clean-up And	M. R. Goes to libery for HR
talk to Got. John	in room compil
Not 12 - 001 to lunch.	
1195 E.P. M.P. And J.D. CLPALL Site Go	ohone call from
1230 Rebin to base After lunch. Rebin to Civil Engineering. CPt Johnson is out of the office for the Afternoon.	Surveyor (Mr. Narsa) Will Meet with him At 8:30 Monday morning to walk the Sites.
Led to Bran	1630 Working on Maps to fax to John Morris on Monday. Compil Sail Gas in to and PID into.
PL Jahnsin	1800 Compiling GC into on maps. (930 Finished working on Site religion.
Morris In San Anhair.	7/605

8:30 11:13

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And campile into 0830 Tield work Begin 0830 Whom to 514 to pack supplied to 1000 [100]	DAY 19 TUESDAY 28 SEAT 93	at Worky AMES holy.	complete work of Scape of	J.B And M.C. Go to Kash, Hobes to seal and stone Equipment Until we reton.	Co to Stabon to Boot Cot Tahusin on Strabon And insure supplies. Are stored at.	DEPART Roslyn New York for Airport. Turn in Vehicles med proceed to Airport.	Arrive in S.A Roslyn Phrzi I
		compile into 0830	Jo S.K.	1 work.	000)	00 1	

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	185	8 14	کے (دساوا	Phy P		Report	78 NHX	NOV	2 20N 1	
				Na dina sangana ana ana						- -

	on the progress of the mashagahan	Mr. Pory reguested Drelimingm data,	Soil gas survey results and field screaning	results from previous Activities.	FAXED Soil GAS SURVEY And PID MACHINIS	trans previous impostigations.	1130 Called John Morris to inform him		1145 Depart Station to go to NYTEST	! . ≘	1155 Arnue At NYTEST. Coordinated Sampling	plan to St. Viscussed analytical Macds. Joe Byd And Mark Escaba	the the lab. Dick up sampling	(400 60 to Air-Wold to pick up Ultra-Air Then to Store for Equipment.	(5)4(5)
DAY 1 is April 94	1 Roslan ANGS.	Chack in And back Cot Lawy	8	owns And inverting		Walk the sites. Check dilling			\$ 1	/ BH	Inwestigation	And fluish on Friday if necessary.	Will begin drilling prezamators Monday (11 Apr 74)	fed him	
WEONESDAY	0815 Hone of Roslan AN	Check in	Johnson	Obhin oguzment	6 ox.	0945 WAIR the	locations 1	01-002 BA	hd 200 - EO	BG-001 BH		And Finish	Will begin drilling	1100 Recieve A CALL FROM Les	ı

See Alley 1

13dm DAY 2 7 April 74	
	1000 Bogs Dilling At 02-003 BH
VEPIXY hitel for Station.	
	Temp: 48. High up to 55°
Arine At Station Propose to drilling	CAlibrak PID: 100 PPM Isobululene
Achuiks.	1015 02-003 BH Int 1
	0,5-2,0' 845
MARK Excobor sets up GC in room	570 5 - 0.5-1.0. 665
provided by the station.	4
Jee Byrd begins to deran steemes	
And End caps.	0.0 PPM
	Fill makeral Park bown to Rlack
Soil Mechanics drillers Arrive At	Charcoal Smis Sand, silly Sand.
the Sik. Robut Rogers is the	Silt will true Angelor gravel Some
driller Again, SAME Crew From	Clay of hiles Poorly Souled
Soil mechanics.	0/2 Recorn : 70%
Walk the site with diiller.	1025 LUTERVAL 2 5.0-6.5 865
	6 - 5.0
Unillars more to 02-003 BH	- 1
Joe By & Coptock	P10 Open-0; 1.7 RPM
MAIL Escabar	ATHA: 3,3 PPM
Robut Rogers Soil Mah.	Slight odor dwing diffing
	Plo at Cull link at 10 6.1.10

nas Alors Emergence Senta Lovins

	Brum Silh spond And Sill. Medinaleh	Fill Mokenal, Bown SANDY SIlt, clay
	cohesive with only little clay. Gravel	with grovel particles. Pouly socked sand.
:	% Becare : 60	1/0 Roccuses : 90 %
/030		1110 Inpun 2 5.0-6.5' 665
	- 19 - 10.0-10.5	SPT - 3.
:	24 - 10.5 - 11.0'	
	.511 - 0111 - 61	- 13 6.0 - 6.5' 125
	CA	PID Opening: 0.0 ppm
	2,5	ATHA: 0.0 PPM
	Sill	Brown SAND, Silly SAND And gravel
:	, 3/#	Vary poorly sorked sand with
; ; ;	80	vem little clay.
:		10 Recovery: 80 %
000/	Complete dilling And SAMPling At	
:	Mar to 01-002BH	1125 Internal 3 10.0-11.5' BLS
		517 - 26 - 10.0-10.5' BUS
1055	SET UP ON 01-602 BH	- 37 - 10.5-11.0' BCS
		-43 · 11.0' · 11.5' BLS
160	01-002 BH , [ukax] 1	PIO Openius: 0.0 PPM
	-top	ATHA! O,O PPM
		Sown to black silty sand, sand
	578.51-107 21 -	with Imge grown parkiles. Very
	P10 ODFWING 1 D.C. P.M.	1, He clay bong poorly socked sond.
	(1 %) (1) (1) (1) (1) (1) (1) (1) (1) (1) (0/20/2 (moza) 0/
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	Internal 3, 10,0-11,5'BCS	SPT - 15 - 10.0 - 10.5 ' BLS	- 21 10.5 - 11.0' BUS	- 14 11.0 - 11.5" BUS	: 00 PPM	ATMA: 0.0 PPM	(t. Brown sAndy silt silt, still	Colvesive sand with fewer crows	p A. Hicks. Usry powly soiled sille	Clay wy sand	1/2 Recovery: 100 %	Infernal 3, 11.5-13.0 8/5		SPT - 9 - 11.5- 12.0' BLS	- 11 - 17.0' - 17.5' 845	- 10 - 12.5. 13.6' BUS'	P10 Opening: 0.0 PM	ATHA: 0.0 PPM	% GEOVEN: 100%		Consplate dilling At 03-605 RH	Most to RG-00/ BH.	RECALIBIAN PID: 100 PPM ISabuhlem
	0621			4 20	The contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o							0521								(1300		

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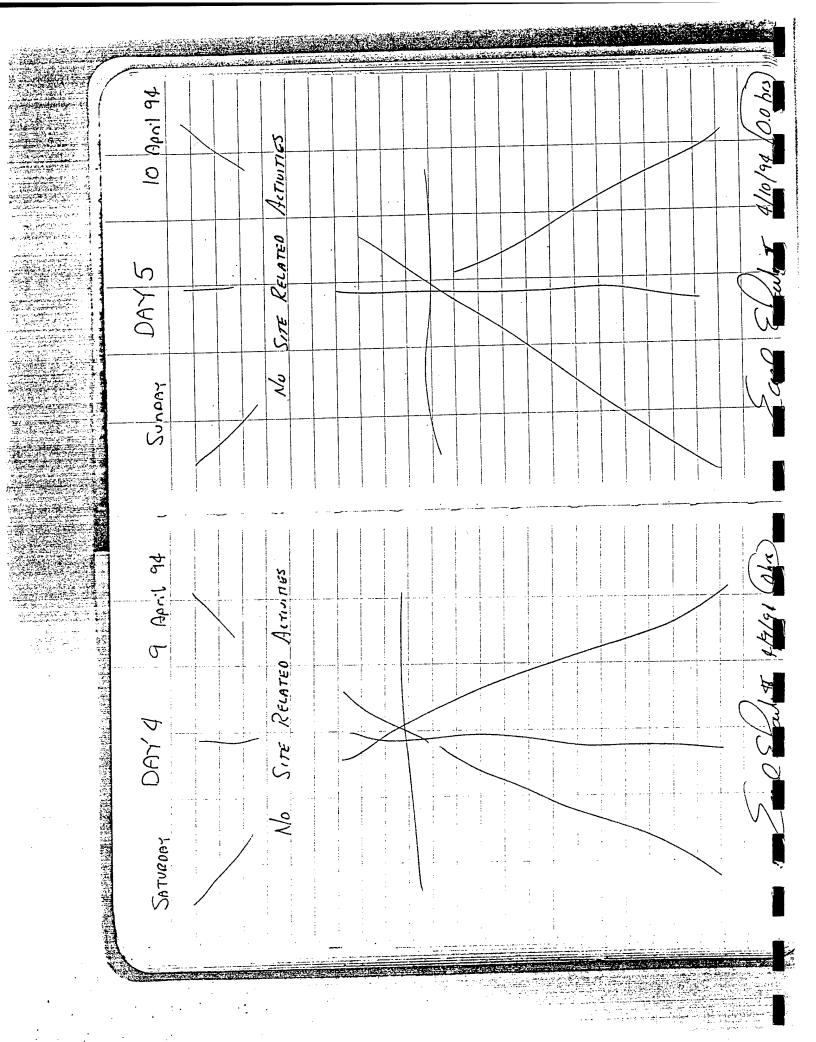
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1 1,0' BY 1,5' BY	2	815. 815 815 815	SAND WILL PACKE
C.S-	O.O PP. PP.M. DACK, O Brawly 911	5.0'-6.5' BLS 5.0-5.1' BLS 5.5-60' BL 6.0-65' BL	PPM 03 Fly
20 ,	26 P10 Opening: ATHA: 0.0 Asphall Carec d. 5: Hy 5 And Recovery. 70	1 2 5. 8 11 11 00ening	A: 0.0.
85.001 0.5'- 7 SPT	Send, Silly Some clay U	Inferral SPT Pid Op	LL. Bown Sc Some Silt little clay.
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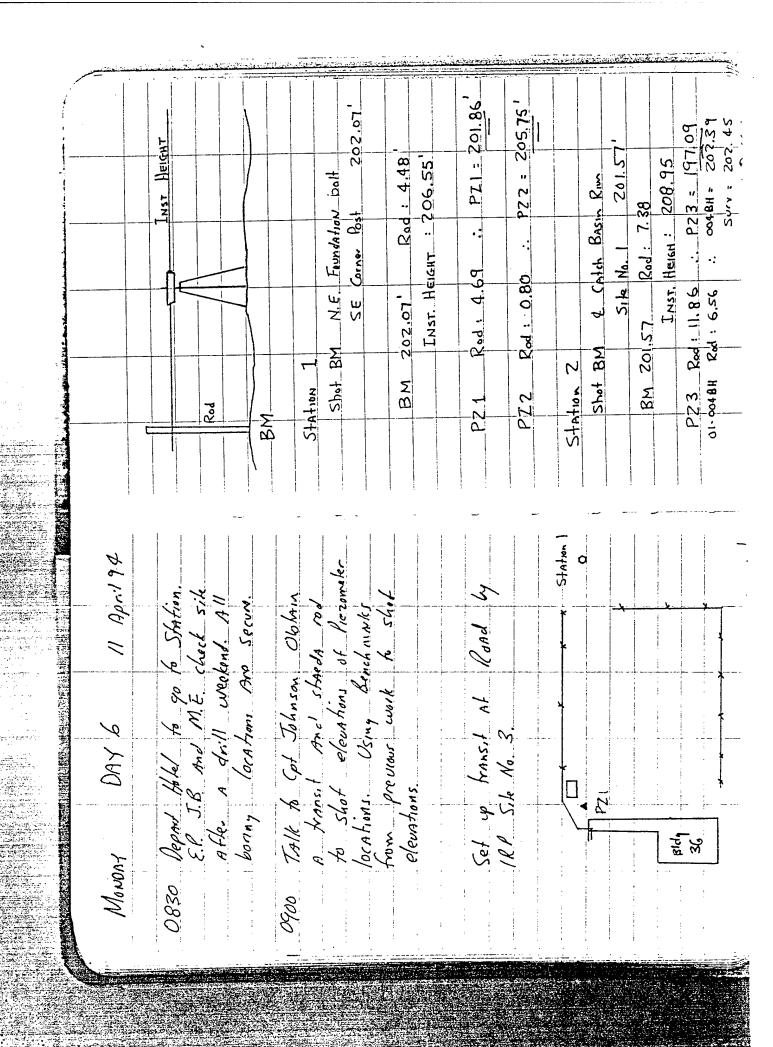
1500 E.P. And J.B. Condert Site Change E.P. Pripares Cham- of custody Form to SAMPLES. Too Bild Secures bareholos. 1600 EAIL And JOP Complete site clan. Up And SAMPLES.	MANK Escabor continuer to Analyze Somples with the GC.		1610 Acouse at Cab. Inventor Samples and Sign over custody of samples to NYTEST. 1630 Depart (Ab fir Hbk).
1340 Interval 3 10.0'-11.5' BLS SPT - 11 - 10.0 - 10.5' BLS - 12 - 10.5 - 11.0' BLS - 910 Opening: 0.0 PPM ATHA: 0.0 PPM ATHA: 0.0 PPM Saturaled Sand with year little clau	1350 Finish drilling At BG-001 BH Drillers proprie to Gast holes. Brillers decon equipment.	1400 E.P. And J.B. proprie to obtain 1430 E.P. And J.B. preprie to obtain Equipment Glank # 7	1435 Dillers move daws to dawn Aron. Orillers finish work And depart Six 4 Divms Added 02-003 BH, 01-002 BH 03-005 BH, 86-001 BH.

TO DAY B GL	Arner At the Station.	to ANGIEL SUMMARZING YESKERAYS ASSINITIES. FAX to PM.	M.E. Swimmarzes the Analyheal information on last years Achuites A FAX to Paset Manager (ANGRA) J.B. Inspects site it insure clean	And Abmdended holes me closed sAfethy.	0845 E.P. mod J.B go to site to wearund in lacations of bound locations.	Locate Personneter locations. Mark	1930 FAX (seating and held screening) results at yesterdays Achuities And summorand information on (Ast years Analytical results to ANGRECICEUR PM (Lee Pany).
	1640 Arne At Habl. MARK Escabar has not yet Arrived	1650 MAK Eccebar CAlls. 166 has returned to Hole.	Complete work related actuities for the day. Purpose to eat				Eas Elant a/1/94 (his)

Sifer is obtained. Approved on sifer is obtained. All losahons are As shown on work Men. 123 is mound. 30 feat west to put it on the Asphalt Away from over wad	This will require A has day delay in the drilling of the plezonstors. [215 Bis Apple dvillers take A CALIBRIA - Style Solit speen SAMple, to check its fit on the site.
Sife. Ed Mina And John Bains sife. Ed Mina And John Bains. Sife. And discuss the drilling sifes mad discuss the drilling	Try to call John Momis -do Feel Lee Perry - ANGRI/CEUR And Bill Hedbary - HAZURAR to In Form them of the delay, Everyone is out of the delay.
WAlk the 3 hozomater sites	
Luterns us of A delay in his mobilization to the sike They me delayed on a project that will not be able to oct	John Moms And inform him of the clothy. Will use the fine to propose for disting, against previous

the Soil Spail pilos to backfill Shahan Il conhaminated coil will be domined	Schedulod. [neum is secum and site	m.E. 4. to FEO-EX Makkye to the other.	the days sechuitus
placed on fl fr be used activities. All duny drilling	1540 Drepan to close (weekind Schedule uselund schedule is closn.	Separt Sir	
or shous to groundwater an defermination.	Keelyn At HAZU duilling pra lic Anno	Sand brocker	Specifically, disposition Cuttings during Foresonne for And That de not rigister That de not rigister Fired GC) will be
flow direction (All Lee Pery of the delay	sach Bill go	for deep bonnys, dine tion.	CPL Johnson, Specifically OF clean soil Cuttings the diffing of piezenn monitainy wells. Soil Cuttings that de Contamination cleaning





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	Ramer	L Le was Mot in left	but he was	Site for Uncl.	5 m Ed 12 lws. 9 t 4:00 pm	Depost for Statum.	CAll 8th John Richardson At Barres ANGS MASS And discuss Issues

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WEDNESORY DAY 8 13 April 94		Propara for drilling. Set up Field GC			Begin to unload supplies M.E. Un, gth. field 6C sety.		drilled last phase. We will Analyze the soil for BTEX for disposal dispusition.
Tuesony DAY 7 12 April 94 , We	No major Activities At the Station. 0730	Complake propositions for deilling. Ongo Graning of PIO	Chrombonnaled GC AN OBGO Chrombonnaled and cleaned. 0840 Systems chack on LEL/ 0:1 who	Poparal of P21 drilling larahan for homorans Achirling	Called Lee Pery (ANGOC/CENE PM) on Shatus report, drilling schoolule And projected Astivities over the	Prphahan of Waster ANGS Activities. The Bill Lodder.	Sand E. D. M. # 4/12/94 (8 ha)

150 Complete cleaning Augers Brook For Lunch.	S. S.	Joe Byrd (John Barnes) John Barnes TT > 816 APPLE William Figero	(hydrochlons), Possible sible contaminates (hydrochlons), Possible sile hazards, eunergening prosedures, buspilal roule,	Weather hazards. WEATHER: Overrast and drizzle.	Winds Am vory light out of the rast. Orizile, Tenp: 45°	1230 Begin to dvill At PZ 1. (Alibrate Plo: 100 PPM Icobertylem. 1250 Drilling to 20 BLS Soud and silt. No oclor. Pro reads
0930 Unillers continue to unload equipment 1150 And set up A decen site to clean Assers.	M.E. Gregins to Analyze composite SAmple From Soil cuttings from		No wind. Expect rain lake in the day, Hi - mid 50's,	Drillers man to decon ANDA And Brgin to clean angers.	Drillers continuing to clean Augers 60 Analysis of soil from previous drilling indicates clean soil. Ho	BTEX or Amy peaks on GC. Will dispose of soil in drums At the backfill pile As requested 1250 by COT Johnson.

			1					
Drill to 66' BLS. 50' BLS	Return Cutting, inclifed & sand and	moisture, no oder. Pio = 0.0 PPM.	light (Ain, Dilling beginning to	And cobbles in the surface return.	Drill to GB' BLS 57' BLS Drilling becomming worr difficult	Return indicates and encounterdo. General in a sandy-silly matrix	Drillers Are pulling out Auger flights h check the load Auger.	lead Auger lost its cloo " that prevents cuttings have mounty up the myer low was wood and they will need a street cloor to prevent
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1800 (All John Marris in Hawaii to Inform him of the days progress. (He is not in left a wrestrans for him to call me back.				5 25 Lat (8 hz)
begin to deposit P21 soil cultings in the backfill pile. (omplete soil transfer WAE begins	to pack up field 6C station. EP and JB cover soil at dail is and prepare to close site for the day, Rain continues.	Le Station. Hatel CAll	W) Big Apple to discuss todays progress the SAid he will be at the Site tomorrow to See how the drilling will continue. Orilling oftens (0-DEX) way be rocessful downthat boulders being on counterd.	Call Lee Peny (ANGRC/CEVRPM) And inform him of the days progress.
0ES/		1630		/659

THURSDAY DAY 9 14, 0730 Depart Hobel & Shahion. 0740 Arrive at Station. Proper for Shalion. 0835 John Barrs Wolley Arrives At Huse of Says the crew is skill for Shaling the side of Says the crew is skill for Says the crew is skill for Says the crew is skill for Says the crew is skill for Says the crew is skill says the side of Says the side of Says the side of Says the side of Says the side of Says the side of Says the side of Says the side of Says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the says the sa	14 April 94	Weather: Clear Summy And Mild. Temp: 65 Hi today low 70.5	par for slight now but will increase	1005 Bapin to Assemble	is still down to previous days depth	(t)	At the	Crew 1040 Rehiew Auger Flight.	Lopaning	Attennot Another doill.	Mouny 10' East to Attempt	Review 1100 Begin to drill mother hole for PZI
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1210 Dillors take A short lunch broak At the site.	E.P. CAlls Matt Alexander and explains. His present situation of P2 diilling. (Alls John Maris Lit he is not in.	1230 Begin to doill Again At PZ/ (third lotaban) with 3 1/4 10 Auguss. 20' Strong to tagin.	1300 Adding 15' of dill pipe. (Augers)		1432 Villing gang very slow my difficult Hydraulic pop-off unluc leak on the	1530 Complete pulling and sheeting Augers. To at the third attend 85' 1325. Begin sith clean-up Achuitos
1108 At 40' BLS AHAILING next 20' lenght of Augers.	Soil is A poorly soiled sand silt with clay lenses And Abundant gravel and cobbles. No odor or no PID readings from soil or drilling location.	1130 Encounter 57' RLS internal and encounter bodders Again. Orilling way difficult	1135 No progress. Ocilling halled at thus	Moving back to near ocisinal location to Atlempt to drill wing small (3%)	1200 Set up aver 3" (waham hu drill PZ)	drifting equipment to how new Auger

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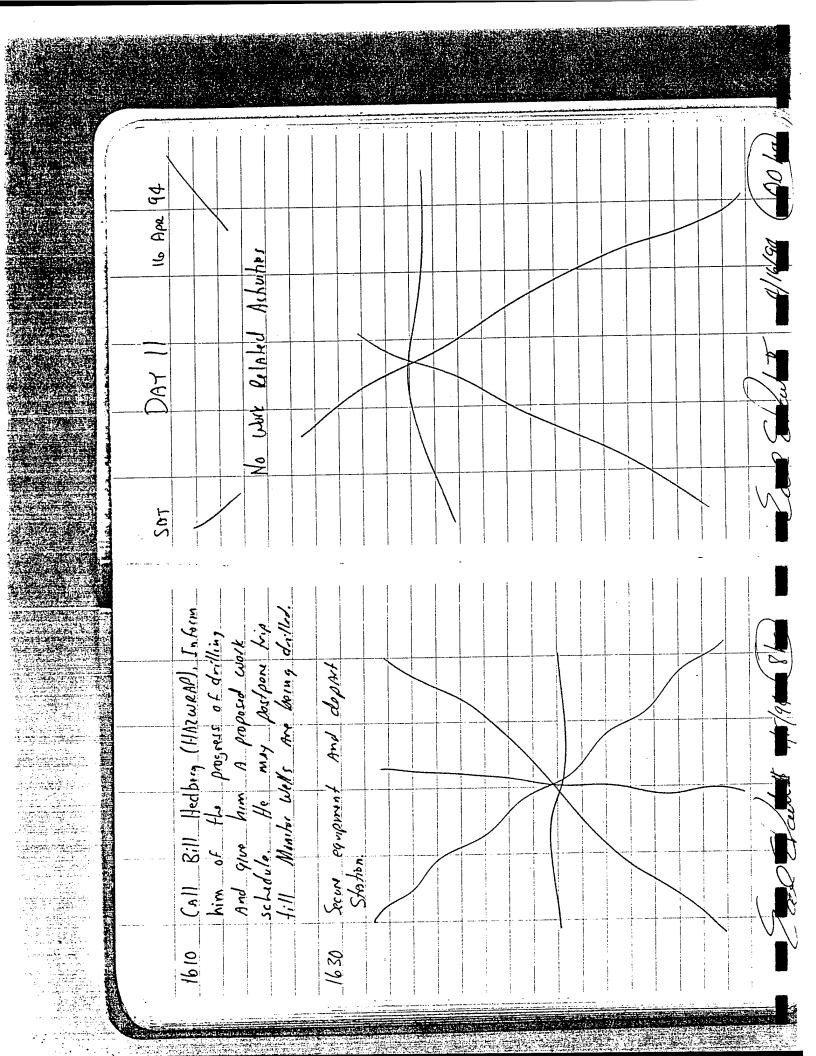
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DAY 13 E.P. and J.B. ALLING AT #	Begin to set a	Knib 13 Frezen Clescol. Waiting To driller to Acrive At sile.	Ed Palma at leave moscage	Contact los Porng. TAIR to him Enday and the conversation with Som Walters (Sellfalk En. Cond)	John Barnes is At All	(All By Apple Ed Palma is not in TAlle to Jeff Haffingore (president). He was not completely familiar with the situation. He will come out today
Mon 0800		WAith	0930 (911 fer	0950 Con	1030 John	000
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Dr. 12	40 wat lalaho	- PAper work on				San 276
Ses /						

John Baiss, J. my crew some At He sile Bugin to propose for diviling. El and Il dopn't sile to go to FED-EX to send back field GC. Rober to Sile Dillers incentoring Golon to Sile Dillers incentoring Golon to Sile Dillers incentoring Golon to Sile Dillers incentoring Golon to Sile Dillers incentoring Golon to Sile Dillers incentoring Golon to Sile Dillers incentoring Golon to Sile Dillers incentoring Gold Costing Dillers complete comming to the sile Joff will be comming to the sile Joff will be comming to the sile Joff will be comming to the sile Joff will be comming to the sile Joff will be comming to the sile Joff will sile of forestation to Joillers complete proposed to Joillers complete proposed to Joillers complete proposed to Joillers complete proposed to Joillers complete proposed to John to the sile of equipment is the last pead of equipment	1520 Dvillers deport the Str. E.P. mud I.B. wait for Jeff Rom By Apple.	1530 Jeff Antferpeur from Bie Apple Arives At the site.	Oscuss the deilling program and cost and time. Jeff does not them sll the dolants of the	Agreement Will HAM to discuss the situthen with Ed Palma And John Bornes, E.P. lets UIM Lnow Optech's position.	Will CALL Min Fanorow (Toes) At 11:00 Am to insure All Ather work to be performed.	1630 Mscussur Ends. Tett deporte E.P. And J.B. deport th 5.th.
	7, p	5° h	Stk. Dilless inventoring	up doill pipe in propriation for distling. (All SETF OR Ed At Big Apple. Ed is mit in and Jott is unavailable.	Jeff will be comming to the sile this Atternoon- Dillois continue to weld casing and propare doill pipe.	Dillers complete proparations. The Air compressor has wel Arroad. It is the last peco of equipment we have writing on.

0920 SAGH Meehny	EARL PROPOR	Rill Figure TAIR About 0-OFX dulling system, John enoling the proverse ichnik for har mods.	Weather: Sunny to partly cloudy and		10 mph. 127		5-10 Medium to Conse Sand, very poorly sorted with silt and octubes.	10-25 10-15 5.14, clayey silt fewer 5, mel
14 Apail 18,94	AMOVO At the	F.P. is left at the site to Await diillen And J.B. goes	602 KH 94 JNG	Now GC will Armer At Hakel This morning	John Jr and haper (Bill Arive At the site. Ona the Dir compresser Araves, dailling can begin.	UNAKING Final begin dilling.	1 th Sib. Field 6C	AITIMES AT the Site.
DAY	0800 E.P. And J.B. Str. San.	F.P. is left A Await divilled	GC is spat back to	Now GC will this morning	John Je and haper (Bill) Arriva Al The site. Once the Air compressed Arrives, deilling can begin.	0900 Turn on the rig Waking Fin	J.B Arrives At the Sile. is aff.	Av coupressor Arrives A
JUESONY	080				1 0845	0200	0910	09115

	15-20 Clay, SIty day with some	02 2	Service men	Š
	gate/		T T T T T	ا ا
• ;		1330	(ompossor	رەر
050/	Compressor is stopping. Dilling		Begin to de	
:	is going vay slow in the clay.			
;		1340	20 - 25	را م
1100	Begin drilling At = 20' BLS			Mast
:	Convessor quits Again. Dilling Halfed			Dailli
	Sy drillers con call for some			
!		1410	Stop to AttA	
5//	E.P. cress to call Jot At By Apple.		(Asing inter	٠
	SAX he has not bean Able to		Record to doi	p
	losk into the drilling contract but	25-40	25-30' 5,14	
	will do so in the aprily pollowom.			+124
:	Ash if I con call back at		30 - 35'	5,14,
	f. W pm			Sand
				٥
1185	Pehin to dilling largher.		35-40	5
	Courpersize is cuming so we begin			S ev
	18 daill Again.			
		15.50	Dilling for	
:	20-25 Compressor out Asom.		somend Ivan	_દુ
:				_
	Brak for looketh so service man			
		_	_	-

4		Sand.				
Jul bio	OperA From.	Fim Silt.	CASIMS.	nedum	المحم	U/ H0
77	in 13 Ain	Mostly clay and Drilling progress s	next (1	Silly clay, clayer silt wi fine sand and gimel. Silty sand, some unedwn sand wi pebbles. Internals	clay - silty clay.	minoka Llu clay
wen (omb	sor back	Mostly -		5, 114 ch 5, 11, 5 sh 5, 11, 5 sh 5, 11, 5 sh	of clayey silt. Clay - silty cla	Dilling for 30
Sevel C	Begin to doill	20 - 25	Stop to CASING	25-30	35-40	Dilling for
12 30	1330	1340	1410	52- 4 0		1550

Free, and thy Are Employ to brash	Continum, to	Remove Air hammer to inspection. Air jets on the bottom of the hammer were cloaged with der appearance	Bottom lithus cuttings from the bottom of the hile. May second for the slow rate of dilling.	As be working properly and closure	ble drill string.	Assembled And	35-40' Continue in clay changing to
Frae. 1928 Flay	1730 Ppe boken Free Continuing to	3	bottom of the hile. May see	Air hommer closud out. Appens to be working papely and cle	Begin to re-Assemble drill string.	Drill sking is reassembled and drilling continues.	35-40' Continue in clay
remore Using the hole.	#1.C	1/2 1815 11/2 to 6/ Palma	He is back in the offser mod will return the signed contract to Marma today.	Intermed him of the difficulish we me having w/ 0-DEX and the clay. Says he well falk to	I will talk to John Minis And	Lee leing timorraw must un will 1900 discuss him to proceed.	Drillers Are 3+:11 Attempting to remove
Usmar Ka	HAVINI Jablemi removing the MAMMER (Annot brook di.	CAII Big Apple - T	back in the Kun the sign	Informed from at the difficulty we me having w/ 0-DEX and clay. Says he will falk to	talk to July	lee loing theorn must we discuss him to proceed.	Dillers Are still Aftempting to

APRIL 20, 94	of finday	lee Perry. J.C. Selr up And CAlibrates Field GC.	And Set		Alle Aller And Sold Close And Mild. Tiemp 60°, Hi: Low 70's. Close to only Pailly Cloudy And winds	Knoor. Knoor. ** It ' ** It ' ** It '
15	grion. Progress	d (A),b	the sit		Clocky Clocky	tin at the na
DAY 15	Preprie At the Station.	1, vp A	Dillers Arnue At	SOLH Muhny = Erel Parker John Bane, Bare, D. P. P. P. P. P. P. P. P. P. P. P. P. P.	At the shr JEATHER: Suny TEMP 60°, H	out of the southerst / southerson. Af 5-10 mph in Afkmoon. Drillers Affich Ha next IT of well pipe and cosing.
٦	Arive At the Station. Prepare and Fax proger	Se selv GC.	Dillers 1	50.64 10 Ext John B,11	Athera	0 de 8
WEDNESDAY	0320		0835			0,80
		() 状 ms = []	14 Hy	fine fine gianl.		(11,5 hs)
	55' BLS	(40'-55') //, 5,14 with	FIN SAND FIN SAND G. AUC. S.	Small round Sand, fins		
	Stop to Altach Maxt casing. CAsing interval 40'-55' BLS	BEGIN WEX 15' Intens! (40'-55') 40-45' SANDY-CLAYRY SIH. 511+ WH Medium to coasse sAND AND SAND	45-50' SAND, MEDINE GRAVE TO BOHOM. 45-50' SAND, MEDINE to Fire SAND WITH SAND SAND SMALL GIAVE! SITY	50'-55' Fine sand And sith. Small rounded girdus! Sandy Sith. Sand, fine to madium w. sith. fewer giran!	day Si.k	pylylp &
	to Alta	Sandy Medium	Syravel. Sand, SAIL AM	Fine sand grave! SAND	Complete 15' internal Pack up For the day Proper to dopay 5:16	Return to 1641.
	Stop (Asin	BEGIN WE 40-45'	45-50'	50'55'	Complete Again of Proper	Return

Inkwal 55' to 70' BLS 55'-60' Drilling, Oncereting, comparent seems to be plugged until clam 1000 Drilling stopped. Pulling up drill ppe to look at Air. 1035 Air hammer is closed with clay Will clean it out Again. 1110 Manual Math Alexander in other to qive 5tatus. 1130 Air hammer closu gus r-Assembled. Pill show (owend into this for the filling and into dill rasing to contain dilling.	;	Day to an I MY I'm Chi
		Inkwal 55' to 70' BLS
1000 Dilling stopped. Pulling stopped. Rammer. 1000 dilling stopped. Rammer. 1000 dilling up delill gyz to look at Air. Mammer. 10 delill gyz to look at Air. Mill clean it sut Again. 1110 Whined Matt Alexander in ethia to give status. 1130 Air hammer cloan And re-Assembled. begin wilding casing to centure. 1210 Complete welding dill casing.	,	55'-60' Dilling, proceeding any very
		slowly. A. homer rooms
	;	to be plugged with clay
		ONE ASPIN
	9	Drilling stopped.
	:	Pulling up doill pope to look at Air
	:	ИЯтис
	35	Air hammer is clagged with clay.
		Will clean it out Again.
	0.	Moned Matt Alexander in other to
		91m Status.
	:	
· · · · · · · · · · · · · · · · · · ·	30	Air hAnnuar closu And M-Assembled.
		Pill skm lowered into hile And
•		begin uniding casing to contain
٠	:	dilling.
	9	Complete Welding drill icasing

Some cley. Mostly silty rend. Some cley. Mostly silty rend. Clayer, Spady silt w/ gind. Smell randed grand. Send end cley.	1, 2 mey - 3 mey - 5 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 mey - 6 m	CALL MAH Alexander and John Morris Explain progress. Decide to continue	Dullers altaching rest duil pipe. Brak to Lunch. Orillors wolding casing.	Complete uniding casing. Propon to drill interval 70'-85' 815	Silt, clay And sand W/ Silturi. Mostly silty fine sand.
	Stop chilling to Add next 15" it	AH Alexander	A Haching A Be Lunit. On	Complete uniding casing.	
	1235 Stop ch	1240 CAIL M. Explain	1250 Dullens 1310 Brak F	1330 Complet	1340 70-75

	75-80' Silty SAND, Fire to madium		36-,06
	80'-85 SAND, Madrum to COMB SAND.		
	(Anger pabbos (Kngwents) NON-		001-36
1400	Complete drilling intenst. Breek to attach next 15' casing intenst.	1545	Compl
1410	Pulling Ar hamper for inspection		Drillen
1435	Air hamme is fine, Air Jets Are unclogged. Will Re-construct drill String and preprint fire the voxt		5mc 77 -
/510	Complete welding drill casing Begin MXF intens! 85-100'		hamm the s
	85'-90' Medium to Fin SIlty stand. Little clay and flux getavel. More coase near bothon with		blow The Cover

						(43).	x	terrol		-	low.	AN		the	1	SAMIA	4	Ü		Vr3 EV)/,	-	
 INCRASINS	Janus /	mere medium	the bottom.	Sandy to sand, 5,11. Becomis,	More Silly w Colon And Som	KAgmants. Fine sand, Selle And eley	Complete 15' 14 fenst. Doilly begin	Slaw non the bottom of the internal	Dallang is becomming slow due to	MSSUM A	1. Ft the cuttings is becomming low.	Since All icts for plugged to incorre	Hom jets	to prevent them from clogging, the	cut And lift At	the same fine. The diller cuts someof	HAMMA	blow out the cuttings. Dalling is	5	The Differs have a larger compresser	formerow to solve this		_
Meclium sand with increasing	TOCK FrAgrants. To grAUR!	Interval Gradus to more ordina	And fine sand run the bottom.	LANG 1 Sil	W/ Clay	Fine Sand	enst Ori	L bottom	MINNING S/	the fact that the Air pressure to	, 15 %	tre pluge	the be	From C	cut And	The di	E/s th	cottings.	•	w 4 /4.	now to		
Meclium s	Dik Fragi	nkrial 6	and fine s	SANDY to	Mure Silly	CAgmants.	15' 14	th man	is beca	that t	e cutting	1/0/ 1/	550m	nt thom	hammer cannot	re fim.	tha //	1 th	ż	Ilers ha			
 9095				,001-36			Complete	to slaw	Drilleng	the fact	11. F.F #	Suc A	the pre	to preve	hammer	the 5AM	אנקינ	10 mo/a	ven slow.	7h Dr.	Covering	poblem.	•
					•		545								-								

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Feibay	17 DAY 17 Apail 22, 94	
0800	At the Sile.	John Barrer And Ed Alma come to the Site Sing lunch and holk with John Barrer Jr. Will call them later
2860	5.8. sals up the Field GC. 1430 TAKe WL At 12-1.	
	0+ P2.1 Weather: Sumy And cool. Hi-wird 603.	140.66 865 140.66 865 140. 15 clean.
000/	1500 1500 1500 1500	TAIK to John Barrer Sn Air hammer
	(illing.	We will chill formorew. Orllus continue to proprie for
	Mow MP	At PZZ. Payma Die for repair.
(030	1030 Regin to move eavishment to 022.	Propries go As Frank Hay can have. Propries to secure the 119 for the vite. 5.13. breaks down field GC
	fill pile. [630	Organt Sile to the day (8.5 his)

Sand and get hole. Sand and genal. Sound is burt. Medium to fine sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound of 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and sound and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 Sand and 150-151 San	0021	formarew And mous deilling operations 27. Services field GC mid SP pleler sile cleanup for the 1. Depart Site. 11. MAH Alexander and when time
0021	1700	Secures Field GC And EP relater site slear-up Por Hu 1. Depart Site. 11. MAH Alexander and when him
7130	002	Secures field GC my EP pleler sile clear up for the Depart Site. 1. MAH Alexander and when him
0021	. 002.1	Secures Field GC And EP plefer sile cleanup for the Deptat Site. 11. MAH Alexander and when him
0213		pleler rile cleanup for the 1-1. Depart Site. 1. Matt Alexander and when him
7 2130		1. Depart Site.
0513		11 MAH Alexander And when Line
0513		11 MAH Alexander and whom him
2130		
7130		the day one to St.
2130		
	2130	11 John Maras And Inform Wile
		Stalus of drilling program.
Complete 15 Internal Resolved thought chapte of 160, Actual - 158.5° & S. W. = 198° & S. All hammer schools that is haten		,
Complete 15 Internal. Resolved Amyor chopte at 160, Achal - 158.5° des. W. = 198° bis Air hammer schooled to bother		
dipth of 160, Achal - 158.5° des. W. = 198 bls Air hammer schoused And is hosten	COMPLE 15 Interval. RALLIE HAMBER	
W. = 198 BLS Air hammer schowel And is hosten	chath of 160, Achal - 158.5 GES.	
Air hammer whomat med is booken	W. ≈ 148 BLS	
Air hammer whomal med is booken		
	1615 Air hammer retrevel And is boston.	

4/11/96

Gran to beginning work of 1022. Bogin to secure site her the day.

f						
	110-115 Coarce sand And grawl. Some	1240	1200 Camplele next 15' in land.	NKE	S in lo	Nøl.
8011	1108 Complete 15' internal. Begin to Albach	1320	Brook Ro Lunch Return to Stat	Break For Lunch Return to Station. Bogin to	Dr. Bog 1	후
	the rest 15 14 borst.		AHACL NO	Attach nixt 15' Interval And wild	A leval	b) weld
1130	1130 John Barres Sr Arrives At the					
	site, Brings luch has crew	1415	Complete welding next	Dillin 120'- 160' KIS	Mert Als	15' 111
5011	1145 John Berns deports site		130-135" Flix Szrd And 511, Som	FILL SZP	d And s	11. Som
1166	R. I Ver F. I.			but few	but few nock Engineents And	1 Vale
	Jollin, 115 - 130' BCS			slow.	Som Cley United	7.
	115-120 SAND, Madium to FAR SAND		135'-140' Medium to Conise sound Anne	Medium H	· Carise	Sand And
	AND JIT WI genel AND			gravel. Rock FAginents.	2 (1 - FA9 18	ten fs.
	Ock Fragments. Turning h			Tending to get MIN Sand	gct mir	- Bud
	SANA AND BUNDERS - GIAMI		140-145	140-145' SAND, CUASSE to medium IN	14/3e 10 M	Adiom SA
:	120:125' SANd, Silt, and About Ant			with few gian! Shaw	BIAN!	SHAM
	guartz rack Frazments,	1440	Athach	Attack next 15' CASIMY ON to	(45/47	on h
: 1 :	Dilling gang slow Sandy	ŗ	, 0			
	125'-130' Fire sand 511 and 120	15 20	Begin to doill Next 15' Interval	Internal is 1d5 - 160"	12, 12,	[nknol
	Mostly Silty clay, Very day.					
7	But cock Framents w/ 51/7.	ندار ن				

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THURSDAY DAY 16 21 Apre 94	0800 ALL Bit. S.P. proposes And Sends daily propress repart the Yeskedon, J.B. sets up And whoms up	Thomas Allamas pr	Opti Bayin to reconstruct drill string. [000 Add mat 15' extension casing will weld it into place.	1045 Begin to drill next 15' interil Orilly, 100-115' BLS COD-105' GAME SAND AND GRAND! SOME MADIVE to FIM SAND WITH LITTLE SITE. 105-110' Medium to FIM SAND End N) ON GRAND! The SAND End
	1600 Orillers begin to break down for the day to abbour the larger comparaers down field GC.	1630 Onillois down the site. 5.1? And J.8. doput the 0 51th.		Least Land

	Welding on shot to leaf casing.	PAPAN For drilling. AHACK	Air homer to dill rod.		Begin to drill At P2-2	4	S' Lt. Bawn sand. Mendur	SACD WI SMAll graul, Usm	5-10' Brown Spied. Gares to Medium	SAND WI SMAIL GLAWL, Little	Sith. Bookly Socked Space.		Stop At 10' 665, PAPAN to Attach	next 15' interval,		Boyn to drill next 15' Interval.	Inhan 10'- 25' BLS	10-15' SAND. POULY SOUND SAND WITH		PACOMPILES Mare SANCY AND SILLY	15'-20' Pooch sorted medium sand any	gravel Granile gravel Fraz mente	Sand And Abundant ach Enguents
<i>b</i> , 7	0430	Pro Pro	Ai		1100 Be	1	0-5,		\ <u>\</u>				1107 SA	ν		1132 84		0	•		181		
DAY 18 23 Apre 40		Ahoin	71 for w.c.	. 84 below MP	. 1, 20 MP	140.64 below L.S.		J.B. Sets up the field GC.	Orillers Arrive At the site. John Barners					, S.,	37.	(3	dilling location hazands			my and wild, with	outh cast at 5 mph.	Temp: 49 - High lower 60:3.	
SATURONY DAY		2900 Arnus At Station	60 to PZ 1 6, W.C.	141 = 141	7.	140		J.B. Sets .	910 Drillers Aran	Jr. is with them.		SAGH BARFICH	Earl Parkir	John Borns, Sc.	John Garry Jr.	13:11 F19:00	Discuss new diffing local	And 30 AH Considerations.		Weather : Sunny and will	2 21 10 100	Tomp , 49.	

	20'-25' Man Stondy with general, Medium	1224	Gonplok next	next
	silty sand with gravel. Sand And		Bugin to add in	b-Add
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11 48	Complete 14x3 15" (x40,00).	0 40	Jyteven 40 -	9 1
	Begin to Add Aut 15' (Asing.		40-45	Sand
1200	break Bo Lunch			gravel Mostly
1730	Rythm Four Lunch Prilles welding		46'- 50'	SANA
5421	BEEN to doill mixt 15" Internal		50-55'	9 camil And Si Sand
	Infernal 25-40' 815			Live See
	25-30 Summ sand And gravel			Mediv
	Will rounded gravel Vary	1400	Complete 15'	†
	30'-35' POOCH, Socked SAND AND GRAND	1435	Begin to drill	P
	35'-40' Bown, slightly silly sAnd.		Julerun 55' 55' 55' 60' 1	600 Jy
	gotor sand w/ gracol. Kondes			3

Gomplik next 15' interel. Bryin to add next 15' to cosing	Bagin to drill vext 15' interval Interval 40-55' 18LS 40-45' SAND AND SITE WITH Abundant gravel And quarte mack fraquents. Mostly sand, sittly sand And	46'-50' SANAY S.11ty-General. Albundant genus with rock Fraquents. Simple And s.11ty sand war bottom. 50'-55' Sance Coarse to wedien simple will genus becomming word. five sand and less genus!	Complek 15' interval. Begin to Add mxt 15' (Aing. Begin to drill next 15' (n. terr) Juleval 55'-70' 825 55'-60' Peelly socked medium and flux sand with dravel
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		sand. Silly sand and grovel.		
es		SAND, 5113, - fever-gimen	\$0,-82	
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		75-80' Fire to medium sand w/ solt	75′.80′	
		rew rock Fragments.	:	
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1-56	-	Inkwal 70'-85' 665	Inter	
		o doill MXF 15' INHOURI.	B.91m	13/3
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	اله	Intern 85-100 815 internal Internal 85-100 815 85-70 SAND AND SILT. Media	3 , 56; 06		95-100 Medrum to contre sand mas 5:11 w. th. Abundan's pock fragments. Very pourly sorts	Complete 15' interval Slow, return to the suchase was week. Pulling drill string to inspect Air hammer.
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1005 Real 2011 [Mkm].	100-105' Vey poorly sorld sor	(105-110' Vey-poolly suited SANU, Stit And gavel, Medium to fine sand	110'-115 Vey pouly socked sand and gimel. Sand, silly sand, courte sand and gimel. Fou ack Fragueuts.	1028 Complete 15' internal, Attach Make 15' CASIMY And dwill rod.	5-130 1865 [nhun] Sen-poolly socked san Send of Sand And grave! N	an or a
Monday DAY 20 4/25/94	2800 E.P. And J.B. Arme At the sile	propares less reput	· 0845 Crillers Arrive At the sik 5.B. supervising the movement of clean soil cultings to the fill pile.	Ogis Air hammer to soll drill sku to speck the Air hammer. Ogis Air hammer is exposed. Looks goed.	1/2 m	0933 Ovill sking Assembled. Adding Mrt. (5' CASING. Wedny onto CASING. Skring.

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Complete 15' interval. Attach the	Complete Attachin, Mext 15 Internal On: 11 Enternal 130 - 145 1865 130-735 Sand Silt, And grand with some dry clay. 135-140 Firm to wadrum silty sand wi 140-145 Medium sand, wil some live some silt And grand was bothm. Sond, silt, And grand live	Completed wixt 15 interal Break But lunch Return to site. Unillers wilding with internal to casing. CPT Johnson brings MR Ford, Station Supervisor on tour of work.	Complete uselding Next 15 Section
plete 15' 14	lefe Attachin; 1 Enlewal 130' 131' Sand Silt. Sone dry clay. 140 Fins to medium. 141 dry clay. 145 Medium. Sand. Sons silt And. Sons silt And.	Completed wxt 15' in the for that the casing. CPT Johnson Eings Superison on four of	nplele welchin
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1	Alexander. Cave him a situation	
	1	
1600	Moved Kig and drill equyment	
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DAY 20 4/26/94	EP & JB Army At the Station.	And Fix to ANGRE/CENR.	CAlls Lee Pery but he is not in.	JB sets up field GC.	3. propars graphic log of PU	 		GAX PZ logs to MAH Alexander	Onllers Unaumy trouble with the	Lumplele n	And works.
10ESDAY	Cay.	Obtained WL From P22	- 0,70 rhp	0=1,1 C.L L. FEO-EV Chahm	10 MAIL PACCAGE.	Return to Hotel.	·	And of our tentation dilling schoolule. 0950	Says he will fly back to Tennessee 1000 And keep in thack w/ progress. Will	Construction, testing, And SANDling.	- 05 A 425/94 (8.5 km)

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,55-05	US sand and geowel		45,		7.0	35-40' SAND GIL AND GRAW! C.	D. 100		1525 Bogin to doill the Mark 15" Internal		Went very fast on this last inknyl. 55'-60' Sand And gravel. Kock Knyments	Rein to Attack MXt 15 interval.		Bogin to dill 40'-55' Intend		7. A. A. A. A. A. A. A. A. A. A. A. A. A.			65-70	65.270		65-20
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<i>شمندسیوی</i>	143,55 (27 20 ' AMSC	Eas Efell 8	4/26/94 8hr	

1017 Bean to doill next 15' internal		75'-80' VPS Sand, Silt, and gravel. Tew mck Fragmuks. Mostly A	80'-85' Fine shad, sell and clay becomming. A clayey, silly sand at Few. Gravels. At becomming A	1026 Complete 15' interval. Propose to	1107 Begin to drill next 15' luberal Internol 85'-100' BLS 85'-90' Fine to medium sand And 91Avol. Some 5:11. Mostly 90'-95' Fine to medium sand and silt	95-100 Fire to inedium sand and solt with nouncled small grave l.
WEDNESDAY DAY 21 4127/94	0800 E.P. And J.B. Arrive At the Station. El propones and sends daily progress	J.S. sets up and calibrates field G.C.	0900 Brillers Acrive At the Sik. Manhuane And propare For drilling At P23.	SAGELY Bricking: EARL PRAKER John BATANI Bill Figure	Weather: Partly cloudy and wrety Temp: 58° Itish: Mid 70's. It to chave of T-Storms Ale this Affernoon. Winds from	0945 Ban to wald next 15 Lakwel

16.20 E.P. n.d. J.i.b. Shumy, in PRINCE AND STRENG SING SING STATION J TRP SITE NO. 3 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM: ZOZ.07 FEM:	E. P. a. J. B. Shary in Rod N Rod N NE Foundahun Bold STE No S SE Corw, Rost SM: Zozon Rod: Trial Height Trial Pz : 4.45 = 1 Trial Pz : 4.45 = 1 Trial Sie No. 1 Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial Rod: Trial	the three		Z02.07 AM5L	3.34 - 3.34	201.811 AMSC = 201.57
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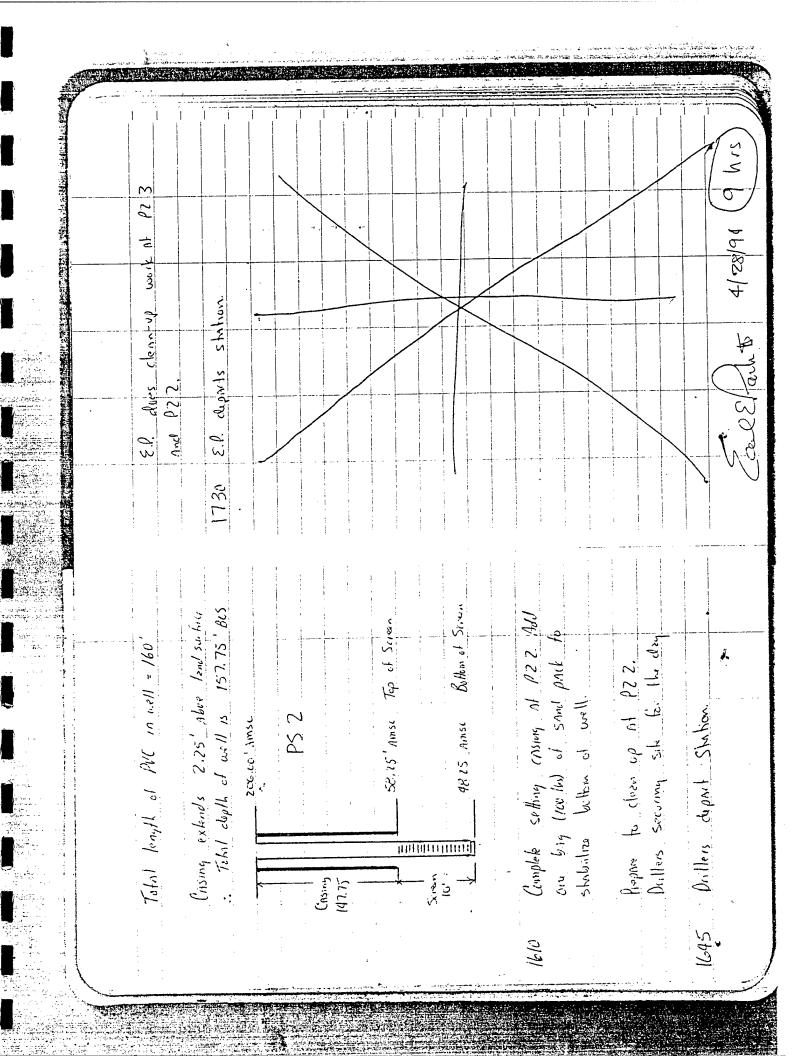
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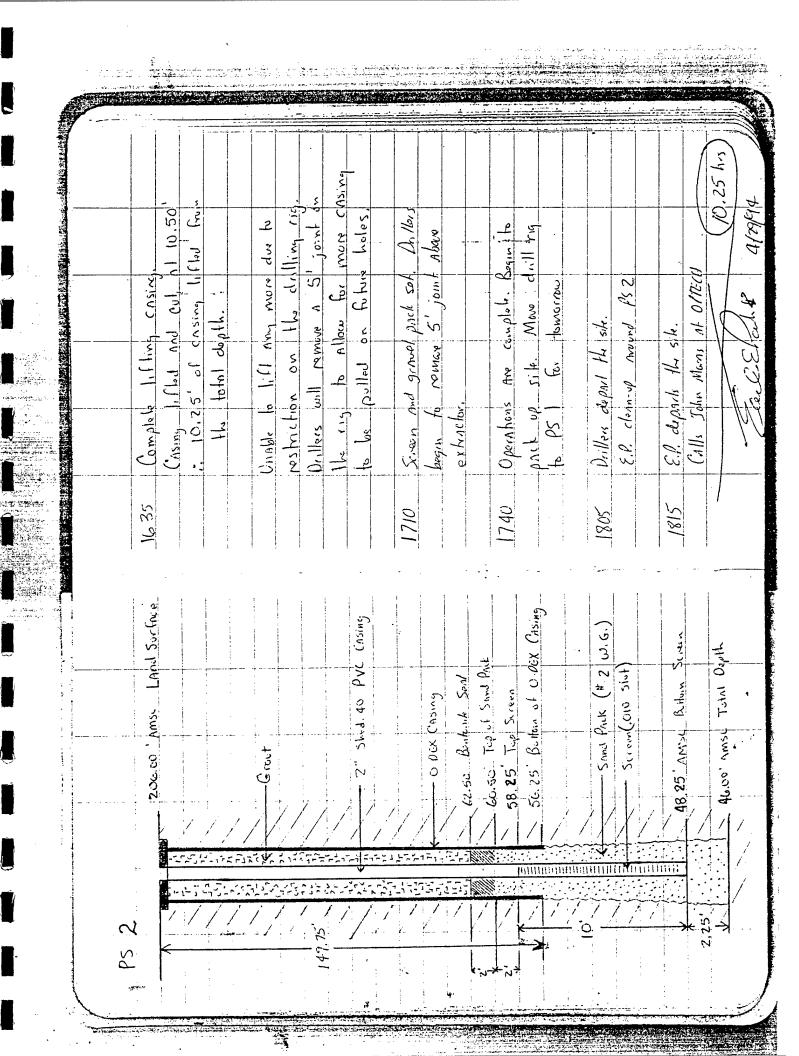
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Complete setting screon, Set one Bag (100 lbs) of sond pack in well to stabolize plezemplor base. Begin to wour equipment to set	fill pile from PZ 3 dril	ODEX CASING At 160 BLS. Complete Air, je tling Brain to Pull di II pipe to sit PVC CASING. Add polable wake to put Vend pressure of beauna sands.	Complete pulling drill pigg. Begins to set the PUC screen At PZ 2 Altach 10° screen, 010 of end cap Altach 15°, 10° PUC sections.
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 Complete jethry stord han the like hele beginning to pell dull rade to set scrown Adel poinble work. In work he as piressen. Begin to see the PW screen it p23	Athach 10' screen .010 w/ end crop Athach 15, 10' pre sachans Tohn length of pre well = 160'	203,35° Angst.	53,85 Aust Top of Screen
 1140 Cemples Jethry hole Beginning rads to set works to well 1205 Begin to set	Athrib 10' sco Athrib 15, 10 Total length	Crients Chica	× 5 − × × × × × × × × × × × × × × × × ×



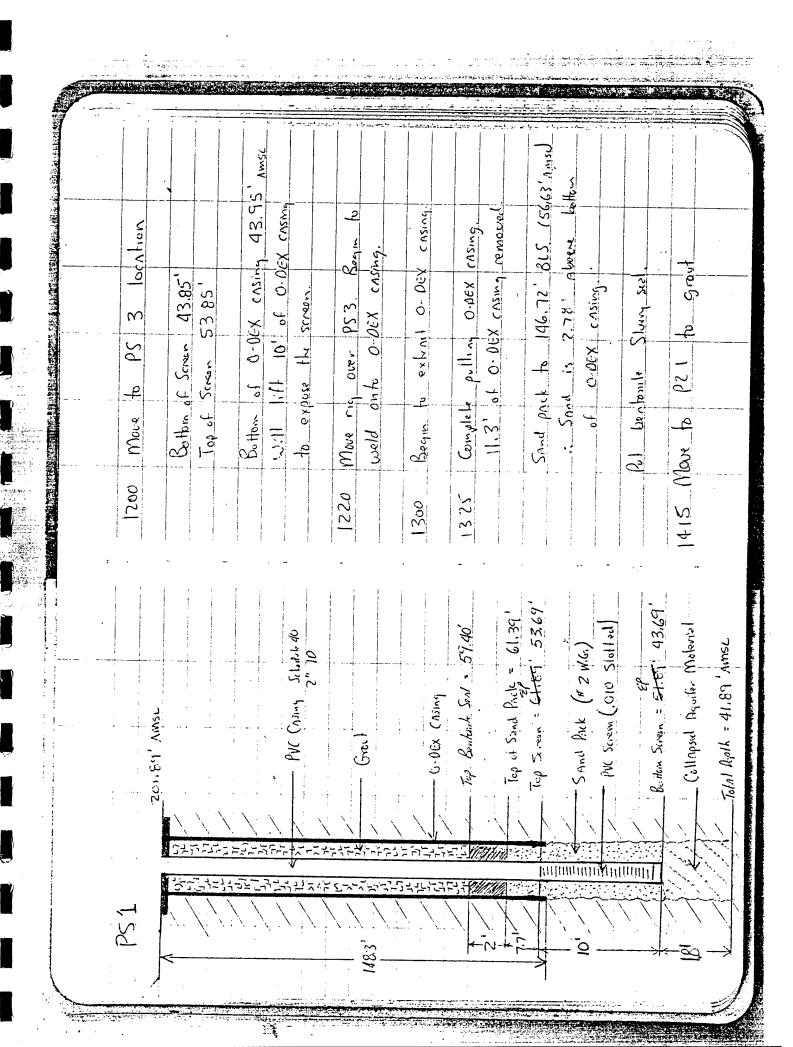
to summarize Chill n n Nomo to John N Pelma (Big Nople)	Merchand their extentor And will Active Al the site soon. We will work townerous to reynology settling the presonneties.	CASING EXTENDED IN SIX An hour to propar the Dillers welching extractor	1535 John Barras S. Arrives Al His. S. 1P. Begin to hammer th. O. DEX crising up to expose The screen. Adeling # 2 washed Giarl And Filler wack as casing is being lifted. Whorking at hammer. Settles sand And seals as casing is
77 E.P. Armes N the S.A. Propher Chally progress report And souds to Muscolleus.	09/4111 WAR. /evp/s Ru., Proze.vs/forg	CALL COTELL For MANY HONDERS INFORMATION OF THE CANDISTRATE PROGRESS FOR MEDICAL FOR SINGLE WELL By GO DE 3	Weather: Partly cloudy and slightly. CUECCASH, Temp 499 . High winds Frum the surthwest, 111 : low 60.5 W. Michalling change of showers In the lake afternoon
FRIDAY	0.000	0930	



	OBYO Begin to wold extractor to O-DEX	To expess the server, 20' of ODEX (1) CASING WILL OF LIFTER.	0940 Begin to Air Knimer O'DEX CASING	3' of CASING pulled.	- 10 3 Cut CASING		CASing	Sand Pack: 140,5 below lend swifter	Elevation	UANNAGE PUC CASIMY WINDE CUTHING O DEX CASIMG NO ORCOSS TO CUE!
Salveday DAY 24 4/30/94	TWE IN Site on challers.	Set CASing, Scondings undied to the	0830 Begin to sol CASmy In 181	7.85 Ze1.89 4143x		5IN = 64781-11mst-5-3.64		Altheli 10' scraen w Betwee CAP.	leng/ of PW m Will = 160'	PUC ASMY is 1.8' Abus Ind Surthie

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2 May 94	Mark Iknson	16 DIEZENE 16.5 Aspun Instrument Height		1H: 206,65' AMSC	(3,102) 5	204.47	20, 60 (201, 57) 203, 33 (203, 35)	chough he use
Dry 26	the station wi	elevations As		Rus 4.58"	58,105 = 43	\$16 = 205,96	Re : 816 :	hous me cluse @
	from DoTail	topho		1 10,505	Rud: 4.80	2ud: 0,69 Rod: 1/49	82 : 205,96 Red : 6.38 = Red : 465	80
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	Cut casing of PST. PST was damaged	C CASING. And the w	Additional wither lovels will be some	1 400	Ketur to 16/4/ to call John	in Pall le		A COLO
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S Complete drilling 15' internal Programs to inthich next 15' internal	5 Been mart 15 interval. [Internal 40'-55' BLS 40-45' Smay, silly, gravel my smal	1 - 9, Azul	Smy And Signal. Su'-55' Fire to wording soul ginal	Sandy water bottom.	Preparing 14xt 15 Internal to dilling.	8 Degin W rext 15 nhand Internal 55'-70' RS 55'-60' (GAVSE SAND And GRAVE)	Smid ma few voile Praguens
1355	1475				7691	805	
Bryin 10'-25 BLS Enternal 10'-15' SANDY, S. 114, 9:00.31 Mostly	15'-20' SANCL S, 11 incl 5 fort Mastly A fine Sanct And 5,11 w	20-25' 5' 14 sand ind ginel, 1255	Burstele 15' [when at Bern to	Ban to dall MX/ 15" [44.3). [416.41 25'- 40' 265 25-30' Fix sind gard ind abundant	They's rock Kingushs. Thuis (Inge boulders	35. 35 1. 5 And gravel And volk (Frighments Consegrant And Abundant rock Knappanis with	35'-40' 6: mal State And Silt. [Buthur Smel w/ fant Fra State. 5, 1t, And gitof,
(210			0 <i>b21</i>	131/			

80'-85" UPS Sond, Sill, And Clay well	Sind Most.	Complete drilling 15' interval	Her doppy It site	And	M. J. And Bill Helber, depart		State 5/2/14 (8.75/13)
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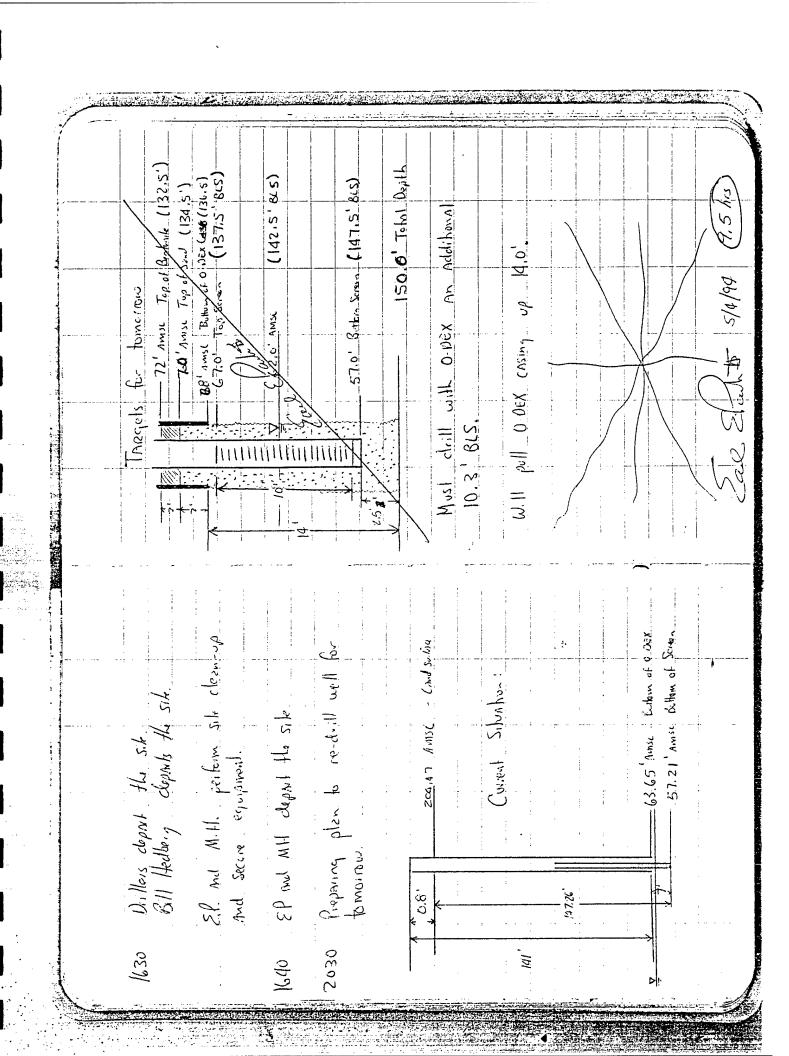
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Both of they Riches should minimia	Shuld wall to be exist to expose the snown.	13 co 11 Hemps To remise 1 co colos from 0-0EX 6151119, We 1/2 bearles		16/0 Unillers will elisterss ophons to remove exemplaning well and re-drill 0.0EX cAsing to alknyt	0.0EX CASING CUT 4 Below the 195 joint Thors is now 191.0 of 0.0EX CASING IN the	8620 Oxillers begin to secure the sile
1350 Regin to 1,ft 0.0EX (Asm. Again.)	Bayn to pull up well. (Asing And well	Well has risen 1.4 up since we begin, Shppiel lithing cosmy to Alternol to stabalio well	Bothin of CASIN, And PUCS	1010 Unable to prevent well have rising frimity Acthored to the O.DEX CASING. by the general pack.	It is determined to pull the well mud chill mid reinstall the well. This time, the well will have a 10 screen. Its shad in the week plan and	The will will be innediately hydrakle with water in order to unincutize some Strick bearing within the well



	in order to Athich 10° sochon to	O.DEX CASING		Complete Attaching 10° CASIES GATE	O DEX CASING BGINALLY to dull	Agmin, Encontaing the well scores		Alfach rext 15 informal mich ready	To dr.11. Break for Lunch.		This west 15' internal will intersect	16 betin of the O. N.X (15117, 1)	16' The Air hammer will not fit			(Ws will flow be At = 144 865.		Drill to the 0-DEX shire with the	Mr hammer, Now At 1dd' BLS.	Blow Air And clein out hole.	Propose to extract the Air having	to replace w/ 0-0ex hardons. to			
DAY 29 5 MM 94		U815 Arise At the Shakin	8 Propose duly junious region to the	reviews calculations for the re-affected 1148	:		MH warms on mot calibrates held 60	And 2007 200 1300		Aulleis Arnor at the site. They will	13.8 (P. A.) Williams to love a k of 1	And is work old caring from well		Bally 18 Bthick Alt having And drill			1010 Bagin to hornway on PUC CASING	Himman encountry, ensure, at 2 95 BUS	4.	PUC cultings cover be the secting as to			Al Mora 125 1865. O-DEX CASUS Bajues	to go into the grand Shy dulling.	
Thusday		0815 Arise	13	20.			HIN	And		CFIR D. Ile.		2 Joseph		B.e.	7		1010 Bain	M. Will		Pucc	11.11		1100 11	b 91:	

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6 May 94	1 S. H. S. H. Mal Mary CEUZ)	2 €	5.15 /29 PRA	Top Sand : 134.5" Top Sand : 134.5"	142,50' BLS	Bothon Score : 149.5" John John : 152,5"	**
DAY 30	E.P. mel M.H. Arnue At Ille S. E.P. Pipping dail Reld Report Fixes to Cee Perry (Ansarc/CE)	AF 0830	1615 11 105 11 Hack 11 105 100 100 100 100 100 100 100 100 1	Acce is to chilling the Butume in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon in the Santon	Samuel	Sorte Total	
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	Removed Mr HAMME, lings precess of Me Screen As removed. Differs begin to re-Assimble dull skrius with O-DEX HAMMER	O.Dex harrows med dull sking has in the hole. We will proced with the Final dulling and sothing	Bill Halbery interms in this will	deserrations of the field, on his	16.20 E.D. m. i. M. H. Soccre Ha site And Copin I ha shahan.	John Muriss CAlls and Imported him of the sikahum At the Sit	5/5/94 (8his
	1520	009/		0/1/	/6.20	2130	

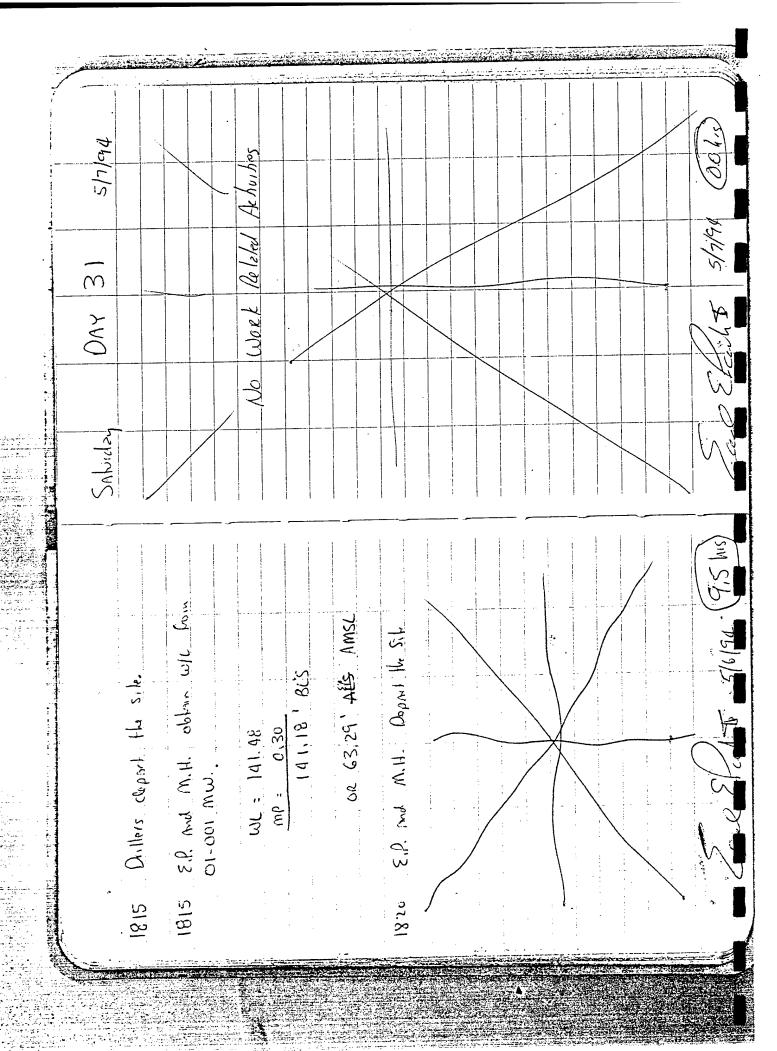
	Line						1
1120 Shppoch drilling, Air out hole.	Pull out drill rock. O DEX (15 mg 13 2,8 Above 12md Surface - ODEX end is At 152,6 BLS	1137 Complete adding waker to well Continue to full out drill reds.	1155 Complete pulling 64 dvill voils.	Prepirany to set PVC Scroon.	Mrt Henson Othiclas endergo to Q" PUC scroon (1010 slutted)	ON SCASA	The hole El And With Although And 151 Duces in tens of loves. Drillers can have to install PUC CASING in the well.
A Hisking 9.3 length if 0-DEX cosing-	6. 6.0EX string CASING 1554	we need to step doilling At 2,9' of ODEX above lend suitano.	Byn he dall last 10° Same Casing blows cut but wastly well sand. Nive bollows casing, Just sand. Cay out We sechous	for early into well		2 20.00 5 20.00 2 20.00	PVC 10 Screen 20.00 = 150.03 = 150.03

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Sec hons Second s Acted IL CURRES Settle 13 13 flow into well SANCH MADUR C MINCHS × 04 SMA A ž per 28 \sim 32,15 gallons wiss SCABY BLS. J+13 for longh Mose Air jet the bottom ASSEMBling ٥ A HACKINY 1 gallon AHACK Ind Surlia. Flowed for ex lends Chegar 5 WA AC Ğ 8 100 Betom 二 出 Drillers brenk Complete n Ad 123 Complete 4 144,13 === Monsura المهند والد WARY المحوا المد WARRY Brel 1210 1235 1250 48.8 mee 53,5 64,7 " PUC CASIMy (Schulle 40) 68.4 Top of Sirun((40,7) ... 63,8 Where level (62,3) 2118 4" PUC Screen (, 010 Shottal) Shad Prick (# 2 W.G.) Bollow - Simen (151, 1615) Top - Bonbrok Seel Total Chall Belluin - O DEX Chainy -204,47 Two Sand Pack munimin 01-001 MW . م C, 5, 2 D

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1410 Expactor is Athactual Branch	of Gimel	1435 Cample Led Dulling 0.0EX CASING 12.8' Addred 1 box (100 lb) And 3/4 of A Second Eng of Sand Pack,	9.8 865	PUC CASING SEHled to 0.7" BLS. Screen interval is Top: 140,7' BLS Bithum: 151,0' BLS	Top of Sand Pack 5 measured nt 136,08 " BLS.	Place Bentonite pellets. much weasone the top of the seal of 132,7! [lydials the bentonile seal will 1092].
Mi compressor on the cirp.	1310 Bayen to AIC Jet Ha will Well Fishls down into ovell Appear 7.0 Feet to 0.5 BLS.	1511 BLS. Complete Picjethny And reweive Air host Goin the	1325. Begin to Athach Oroex expansion to consing to lift Oroex casing to expanse the Por Somen.	Bother of O'EX Chimy 152.6' BLS Bother of AVC Screen 151,1' BLS Top of BWC Screen 140,8' BLS	Will pull 0-0EX CASmy & 140 'BLS :	

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	Surface cover At A lake thus.	Dy will (Noth) 6.78 200,33 Amst
:	Col Put casing to 0.5' above lend surface. Cas well.	(35,002 200,55
16.70	() Notice (Ambients)	High Wale Merk 5.86 201.25 Amsc
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1730	1730 Dullers mount Air Compressor mot Dull pipe to 03-001 MW.	1810 Dillers mound off equipment and ma verid to cleren chall stems to drill on Monday. Begin to Secure



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5	4 W W		7 18 8	h d. Bis	tha coms	900 pmel
Cemplet dulling the inchal 10' interal	Onllers Consonrainy the O-DEX CASIMY And dull pipe in a beller possible to Good it up into the hole.	Dillers preforming	Drillers propriet PL Mat 15' interest Br Anthing. Welding Maxt O-DEX	10'-25' BCS. Mostly grow! and and Gall Grapmonts.	Evolung though layer acks Soine fine to conse sond. Mostly gived And rock Knomunts.	Most sand new bottom Very conses sand new bottom, Very conses sand with SIF and Abandand is mad abandand is mad abandand
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3	CO - 25 11.14 thm to COPYSR 59mb And gethod	GONSE SAND AND GLAVEL
	Mostly A wordown s.	sind wig chosh
[518	Complete chilling 15' in ferral.	1. Series to
	Attach wext 15 internal.	
1545	Begin to drill next 15 internal.	4),
	Internal 25-40' BCS	
	25-30' Medium In fine spirit And appell	And Glavel.
	Mostly A medicum sand and george.	d And Germol.
	30'-35' Modium for Fine sound with	with abundal
	genuel And few open Knagwonts.	Grepworts.
	Below way mare giApally mad	Fright Cripmonts.
	35'-40' VPS SAND, S. 11, AND GIRNI WIT	41.20 / with
	layer grand And the west bergenent	rock Kingwan b.
	Mully A Carrie Souly growth was	g. nuel Jud Stad
1555	(Dun, 2) 0 H 15 ' in Koual, Bay	Baymany to
	15' of dall pro	And OPRK (Asing.
1624	Complete nthrehing 15' Internal.	Begin Po
	drill do' + 55' BLS Inlewal	
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3. 3.

de Goor C	6 1 4	2-001 MW	1205 (All JOE BYER At Optech to return on Sunday to complete the project.	Roby be to dall	1245 Begin to deall invisal 10 interval [Internal 0-10: BLS: 0'-5 Most and wase very peorly sucked Sand sitt, And Anicles gravel 5'-(0' UPS sand sitt, med gravel with
WEDNESONY DAY 35 11 MAY 94	Sends it to be leaderly (ANGREC/(CHIE PAI)	CESU Dulles Arnow at the sike Bern to propose	E.P. and M.H. more claims of squies. Makenal to drain stease men noth of the parting lot We have 2 draws of the parting lot we have 2 draws	1025 Dullers begin to organice equipment wound 02-col MW. Delivery of drill pipe and MC casing for injurition coell me delivered.	E.P. And M.H. Syrvey in the night menitor

80-85 UPS Smy Sill And grand on some	wedium stand gravel.	1005 Complete 15' interval. Begins attach Wort 15' interval to duill string.	1034 Begin to dall next 15' intensit. Intensi 85-100' BLS	85-90' Fin to wellow south And growel. Matty stad wygowel And Ru	GO'-95' Five to medium sport growth	1 4 -			1052 Complete dulling 15' intrival. Papara		today. Hi. 69° And directe, winds out of the south from 5-15 mph.
THURSDAY JA 36 12 May 94	OBIO 2.1. md M.H. Aron At the Station. E.P. proposes mid sends Any proposess report to low Roiny (MURCHEUR PAN)	W. U. Prepries hell GC he operation.	3.00 F	E.P. And M.H. was clows of cultures	0915 Pullers begin to 7thich roxt 15 weard	h dull sking.	09/45 Byin to doill wext 15' in fense! Interval 70-85' BLS	75-75 VPS Smil, sill, AND larger gialel. Few rack Francisculo	75.80 VPS SAND, SITT, And grave, Madium.	Becomming more sith as clay, silt met	Jung

	ر ومري	(0,05	(10-115' Medium lu A
÷	AUC-Schun 1	10.03	Conse Sad, 9
	2 1	10.05	Greenents Mi
	X	(0.05	madim Shill A
	<i>b</i> "	7007	
	10	10.05	1150 Gimplete drilling 15
	9 11	10.03	proponey vext 15' 1'
	1 1	10.01	1
	8 "	10.05	EP. Lakes M.H. to
	,, ,	10.05	Rostyn.
	0/ "	/0,03	
Personal Land	" "	10.03	E.P. CALLUZIUS ANGEL
	12	ZO Ø/	well med screens
		hos	
	11 /4	(0.05	28
	1)	70.05	
	END Chp	05'0	
1133	BEGIN TO dall noxt 15'	+ 15 'Inferral	138,66
	Inkoral 100'- 115' BLS	Bis	
		Fire h weeting sand, silt as	b
: :		Some gencel, Few ack Fragments.	
	105-110 Fine hi medin	to medium smd, gimel mil	
	rock Kngnun	Fragments Abundant gravel	== +8.6.
	And ruch his	And ruch Knopwords w/ Fin soud.	
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1	my few a	13	ganel		B. drilling	12 dep. 2		بر اور		Amst						2
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Wheelink to the struct		Md	15' interval	Inkwel	to hotel		Inget dopth		203.68		38,64	141.60 865	19060	\$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	154,63
-	Conse Stad, gither	Greenents.	madium Shil	drilling	raxt 15	M.H.			25			/3				3)
i	(11.0)		-3	G.moleh	propond	EP. Fakes	Postin.	E.P. cnlcolales	well mo					(1,1(1)		
				1150											¥	ح و

E.P. runs field CC malysis ar soil fair 130' BG internal. Begin drilling mart 15' internal [he.val 130'-145' BCS [nk.val 130'-145' BCS [nk.val 130'-145' BCS [nk.val 130'-145' BCS [nation 5214	[35'-190' Wadvun for flux Shel And 3/190! 195 Wadvun Shod And genel. Sowa flux shelf racetly undrun shil wil Sowa Swall revield genel. Sond	14 18 Complete. 15' internal Wrillows Attacking [Ast national and contident of 10' 665 Ex a total dayth of 155' 665.	Skies becomming ven dark. Thunder Shows way be madiung into the
Total length of 10' screen plus all 15 Sichons of 4" put is 160,72" There for betton of screen to be At 199,63 As How will be 11.1, Above land surface.	Drillers complete Attaching part 15 interval Begin to duill Interval 115'-130' BLS 115'-120' Sand, Sill, And ginel. Mostly A five to widow sand and sill wigined my few rait Snqwist 120'-125' Smel, Sill and some! Medien to five synd of grand and few raite	125-130 Wedness Sand we fine sand And Scarel Worthy a medium sand And gravel	63 Camplete dulling 15 Internal Dallers brank to world work 15 section 20 Onlies begin to world work 15 section

	hole. Inh the lop of A sithy clay. Orillers add water to hole As they shut the Air off. Since we we in clay, we do not expect alot of sand horse At the hile so we will minimize the Amount of water noded to the	Orillers larger he pull out drill string. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. String. Strin
Ef tops 145 Bls smiple md (sucheck hold Gl malysic Moving) In secret scalable drum be withings Four 02-001 MW. Druming soil from 130 Bls to TD for drum stringe. Area maishing malyheal results.	What kicks up big and thudu and lighming in the Area. Stop work That mare muny from the rig to See it is in will blive aver. Rain is over mot dalkis go back to the rig and begun to weld lest Inkurt on the dail shing.	Begin to drill lest 10 intendi Intend 145-155 BLS Weben start mis Gittel Mostly D medium smi 150-155 Start and the start This start and and gitter Mosst Start And show Sind; silt, And Clay At the bottom.

무결크	9 5 3 7 5 3	S. S. D.	20 4 2	<u> </u>
	1642		1655	
1615 Complete by pulling gig hommer. Drepine to con solil specer somple. to obtain Aguste, material sample.	1623 Run clown spear. Obling Agus for undersal. Mostly A Ring smed, silt and cley with high geny cley and brown smill had silt. Pill (spear opening) 0,0 PPM	1628 Begin to Assemble PUC well. EP. M. B.II du laylex glooves med Assemble end cap med 10' scrain (4" 10, Schaule do, O.010 slotted).	6051 and 15 mild bund sections of Approx 10' lengths (measured viewborsty) for a total PM well string of 16.22'. Subtract the end cap and the buttom	(Will set the well of 148,6 to 138,6" to 1565.6"

an med	Scorneling Scorneling below The	1 P P P P P P P P P P P P P P P P P P P	×
There fore, we will set the screen PUC CASING WITH 12.1 FREMAINING The And SURFACE.	11 14 8 - 14 8 - 14 8 - 14 8 - 14 8 - 14 8 - 14 8 - 14 8 - 14 8 - 14 8 8 - 14 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14. 155. 19.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.6 (18.
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There fore, we what with the food sortain.	12.1 horse oln depth, bottom of prevented		POWCESS OF EXPLACENCY CASING. BLEW of O-WEX CASING BOSTEW OF CASING
There For	Complete 12 12 b LL b LL b LL b LL b LL b LL b L	Orn Hers Are Smad pack Lue II. Add Smal pack. Begin to Begin to	CASING.
	1642	1655	

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7xd	Come	4	8 % H %	PUC Skin	<u>s</u>	6.8 P	Add	3 5	ر في رق	ද් ම
	1848						5-		(410	1930
 1735 Complete welding Extender to 00EX		PUC well boying to sattle , Collins 2.2'	Strott Tuin off Or hammer modifield	ophium settings.	1745 AH316 A lie to the well my we engage	back to cresmal elecations.	Adding # 2 W.C. Smot pack to shallinge	of gine and well shabilizes.	Add 1 Shy of " 2 WG as ODEX"	1838 Lift 0-DEX CASING to 19.8. Must she to cut CASING Must

extractor.	Remark 13.8° of 0.00x casing with a suche MP of 1.0°. Durking 159° - 13.8° = 145.2° - 1.0° = 144.2° Bothom of 0.00x casing at 144.2° BUS	PUC MP 15 5,90 With a PUC shing of 154.62 - 5,90 , screen inforval 15 148,7 - 138,7 , BUS	Gravel pack is sounded to be At 138' BLS, Will not near to Add ginnel during final 0-0EX		Begin to pull casing. (Begin to pull casing.
	1848			01 63	1930

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C2-001 MW	203,68 11. 11. 12. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13

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13 May 94	להיין פנ (נפטב)			The m	رم کو	ואמוהל			, 19 d	57.	gh.		12. 19	+chush-s			6A3UN	-	who.	, 29	20,	2
13.	Serds M (ANG	-	- 8	thole chocks	preparation	מס פי			ld. Tem	And bre	10-15 "		EX CASI	in plake		×	and who		12 / 2nd 5	4 154,62	- 1. 4.20'	150,42
37	2 3	-	3	schulbes	٧.	1 great			And mi	Sunny	S (Now	. 4	10/ 10	med Co		-	is rem	Ò	1,2'. Aben	toh leng		Screen.
DAY 37	Arrives At the Series drait-		ער איניאל	Discuss chail, acknowes Made Ham	Le Shhin tedny in preparation For	Shaheas doll wound comming	•		Sunny	, s,OL	oth cond		d niped	Extrach.	OI MW.		3x bachur	CURNI PUC MP	. Pyc MP is 4,2 , Above land sof ha	There has PVC tohil length		Bothin of Soven.
· · · · · · · · · · · · · · · · · · ·	E.V. Arrives OF the Site. Studs doily		Unillers mone of the Sik	Discuss	- Sha	11 Sh		-	Workler Sunny and mild. Temp 61.	11. Mid 70's Sunny And Ore's y	with "South winds from 10-15 woh.		Orllos begin to Cut O.DEX CASING to	reinote Extracted and amplete Achustos	11 02-001 MW.		O-DEX extractor is removed MCASUR	(נמשא	, pyc.	There has		
FRIDAY	080	1	0260										51 50				0440					·

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S	5000	C. C.	02-001 MW.
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) Sc. 15	C. S. O. 3. J. D. D. S. J. D. J. J. J. J. J. J. J. J. J. J. J. J. J.	Add of Pold	Bes or well
			338
2	33.	SAnd Sand	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -

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inshilled And Cewented of All wells on Monday After the grave	1290 Forklift of 20, obs. mover grant to 01-601 MW. Dillow unor Os. and equipment to 01-001 MW to growt	1255 On lors from 1/2 tub of gart ((Bag) Inho Well Bogin ho MIX An additional bag.	1315 Begin to mix And gray 1 Uny ('i.i. Nb) of gray to complete 01-001 MW.	1330 Ocilloss mound of gast the continued to 3-001 Mw to gast the coeff.
1110 Mixing Bertenik gaut to travile into the well Mix 2 Bags 66 gart in onix No and Add	1130 MIX Another 2 bags of Bertenith grant And Add to 02-cor MW. Well takes to of the Ub, Grabel to the sockie, Ladis 1, 4.	Puthny " to the both grated by gated by the for goot on a sallet	1195 FixII operAbi At Conch. Dullers 1985 FixIII operAbi At Conch. Dullers	Philler Cut PVC CASINY below And Surface and place well for

Fill the hule to the surface. It the some some specific to 01-001 MW. And Bill toke specifite 01-001 MW. Of gail to the sufficient thise	1515 Orillew begin Marntenme on ng	5 P. Maning Emphy Sealable dows to the Manihor Well lerahons to be used to drim development with	Monday, Com-up At MW locations	1610 Drillers Complete Cleaning up And Seccong equipment for the weekind. Onlers will Complete suchac completion (Uplie box And Cewonting)	
John Borns (Jr) propries to cut PUC CASING At 01-001 MW below Ind Surface while others move equipment to 03-001 MW that Legin to mix gout	Clem up mound 01-001 MW	13.50 Pullers mx garl Al 03-061 MW. John Borner Cotto Duc At PS 2 loelow the Ind surface.	1420 Onllen trains / tub (2 tongs)	1455 Begin to trons golf in 03-001 MW.	

	dovelopment. Drillers prepare to	Canal book into well to see.
16 20	Onllers choput. the site.	And MAKS poles shick " Imperely
	boods for the weekend Prophsing to obline wher levels.	
[63 <u>0</u>	Oblain Wake levels From All wells.	Son 25' BLS TO SO' BLS MAPPINGERIA.
	02.001 MW WL: 141.36 " (62.12)	03-001 mw cut 139,43 i
	PS 3, wk: 141.33 + 0.20 141.53 (61,82)	1763 01-001 mw wt = 141,84 + 0,40 142,24 (62,23)
1642	Pilkingt to obtain out four 63-601 Mw. Drillers cut the PUC casing below land such and Appropriatly Allowed Some	1708 Atempt to ablance well At 20 BLS with not permit pale to go

SAturday DAY 38 5/14/94	0810 Recieve of call From John Browss S. of Waber Resources the recieved rmy Messenge and returned my	Discussal He Sivi situation at	E Believe Sout got into 03-001 MW when the drillor cut the force cAsing below the Iron surface the was toelow the level	of the good. One the cot was unocky, An endetermined Amount of good flowed down the neich	Use the chiller was well whom the well who find the well who the low the lond surface. I	goot level lunscrew the
	1720 Clear out who med pack equipment. 6) are to pry-plus to call John Manis (4) Toch) to in him him of good Situation in 08-001 MW and 182	1745 Doont the site to go to hotel to them dollors concining grant in the wells.	1800 (All WAP. Lessures. No com in so I low A ANVESOSE CONGITURY The givet in the wells.	1815 Phin John Mans Coppel, the shes		5/13/94 (7.71/2)

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-	16 site on Friday so he will be over the last that a lost to sivery recoverents.) . w) SAM/le	Hermit water Kests (Shy test) equipment Amond taday of the hat her Desday los shalled	the Aflerman preparing and reconsiling my so for this		
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	ov) Mind	My fers	Herm equil hat	Spending 20pgi wo expenses	- - -	

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Munoay DAY 40 5/16/94	E.P. Mrd Str Byrel (5B) dr to	SAMples Obland T Wille sels for	1) O1-CO1 MW		5) Eclarywoul Blank	o, WS o WSO	Oblan 10 for sample prosuntin	Anna Allo Site. Inspect Will locations.	Alkury hobbin water at	es down	med trye comos up clan.	35 ' US
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40 E.P. med J.B. Go to 03-col MW to an A briter down the well to clock concliber at well med	E E	6 John Brins 3r woore pump to 01-001 MW. To charles that one First.	Sething up pump And proportions 01-001 MW Cor de velopment.	Buthon Screen = 53.50' Amse (URI) Colour = (0,0498) x (4") ² x (9,02')	, , , ,
Many to about with Abeliet 41	171/2 C/2005 C/2 Clerky July 3 Ch. F. 1952 W. 193, 43 (+0.00 M2) (62,571)	Max to 1/63 + 0.30 = 141,915 (62,52°). Max to 1853	02 wimu 02 wimu 141.15 + 0.10 = 141.15 (62.10)	to call Sm.) Meras Arius!	Send doily progress report to Com

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	Pomp	th Anol.	Lowering	L'in screen						[mhal	21,2 gal.	31,8 121	37,1 921	42,4 42/			19 Nous	Gel /mn.			Walter cleared up well during decelopment	-	
	gallens.	be Anchine	111900	i han bis		SING	Sclobung			10,30	გ, 2	8.51	Åv3	g, 10) ld		44.5 gAllons	wns 4,2	Temp in E. Fihrenkil	(00)	during	14/98/15/ 13/198/15/	
	lenst do	01 W	ا ۱۰۰۸	15 (2.0		CALLSIAL HYGING PH USING	7.0 And 10 pH Buffer selvhung	c.	TUIN DUMB GIN.	5,89	2.54		. !	2,51)-t-JU	Jung cake	ů	Cond is A1 (x 100)	1120 02	7	
	Lep At	Cleare o	10000	149 , 6	2	Hydre	10 PH	Deverai		76°	60,2	58.85	58.3	58.3°	٦ (ټـ)	Jak for	F Dring) lad	, vi du	در در	Cleared	17:08	
	Will dewilep At least dogathins, Pomp	And hose cleaned in DI water And woth Anul	80 m	Doing to 149 665 (2.0' From battern screen	Ecompleiny 15 Eat.	CALLSIAL	J.0.	Becom to	11:48:00	11: 48:30	[[153.ec	11: 54:45	00.95.11	20:25:11		Obtain wake for	Shut off Dimp holds	Leveloped	- -	ؿ	Wn kr	10 7/1	
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Agualugmont. Water mad Mathind At (48.5) 30 gallons.	110 011	Initul 21 gel 31.8 gel		SiO gel/min delynunt
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MOW)	Oh Using	2,43		4
HOSE Purto	13 19ydac Uhani	05v5ton 68.6° 62.5°	54,5° 50,7° 61.8°	pump F o Nt lessed fo clu
Mound to 02- Ming mul hose Love, pump into BLS, Will da	Evenything Calibrole B. F.E. Sal	8 EGIM TO 17: 70:00 (7:31:00	12:33:00 12:35:30 12:36:00 12:41:30	Shut iff Temp in Canduchuith Waler cl Can hound
03:11	6121			

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1255	Meving to 03.001 MW. Pung med hose	. 03-00	J. WW. 1	Juno mai	hose		On 11815
	clemed with OI wake med Methanel.	10 H	11 14 N	A Moth.	41101.		ar Chan In m
	Loure pu	mo into c	Z // 25	Han Dem	0.		Chan u
	At 145 BLS. Will Lovely At least	865. W.11	Javelup	nt lees			
	50 G2/1011S	! !				1410	On Hers
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!	(Albish	Calibrate Mydae using 7,0 pt and 100 of	111, 70,	1 Juni 1-10	We of	77.0	
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	BEGIN TO DEVELLEP	DeviceP					
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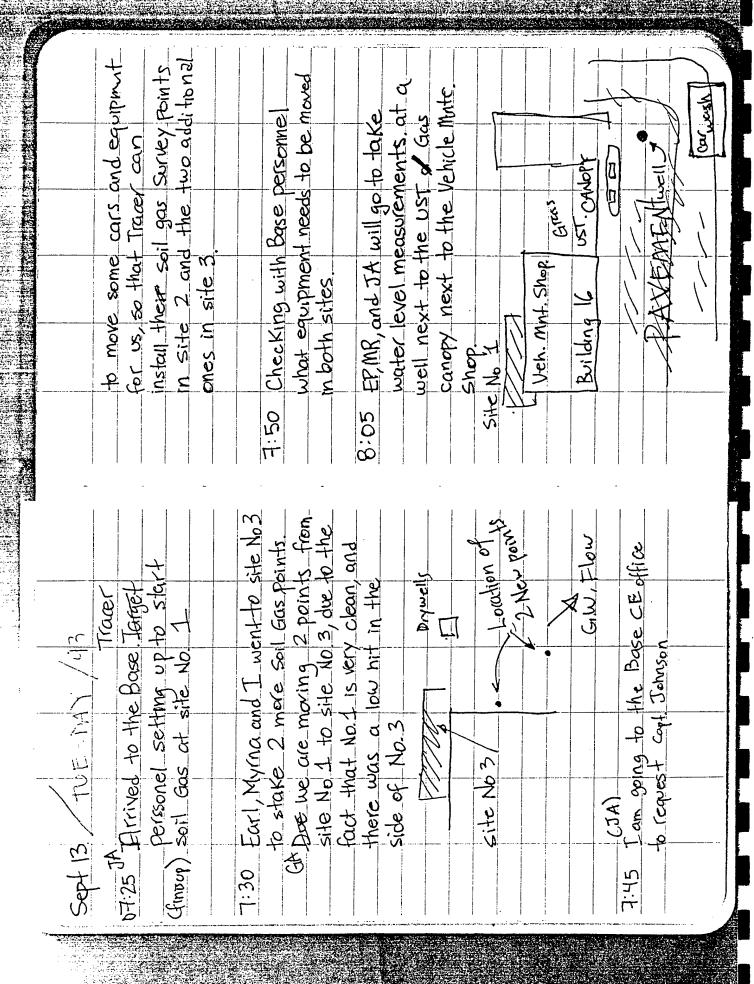
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_	(0,0403) x(4) x(8:82) = 5,8 qellens Will oum of least 17,3 gellens.	Sof Dung at 148,5' BCS Begin to claveled 02-001 MW	22,7 73.8 3,72 ° 5,75 ° 75,7	55,9° 2,75 7,05 55,6° 2,78 6,73	Purging Complete Shitt off pung After 21.2 gellons Pung wake uns still any slightly sitty following purging.	1 8 -	Obhir wher level from 03-001 MW. (UC = 139.76' BCS (blums of wher in well is (0.0468) x (4) 2 x (71.18) = 4.69
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01-001 mW.	Bogin to pump will fromp at least 18 gellons	2.78 7.20 2.69 7.13 3.18 7.05	6.95 10H 1.64 nflex	Purge waker was very	ed with 7 and 19 pH	clacarhaninale UI DT mal, Wose to rart	Pert - Frien 02-001 MW
0700 Prepare la purge 01-00	Bogin to pump	09:14:30 55;3° 09:17:00 54.9° 09:19:30 55,0°	Prignay Complete.	Class, Purge Waker	Ond = X 100 pH = Calibrated with buffer sclubbits.	0930 Pull pemp And clocenhammale will when the More to no well 02-001 MW	06 kin water 16 WL = 141,58

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8:15 The depth to grandwater was exertised to be at 19.54 f. No odors were detected coming out from the well. water could be seen fuith a mirror from the surf	8:30 0:30 0 + 0 + 0	10:55 Point 21 of the Soil Gas Survey moved 1 ft to the south becautement able to drill the type in Maybe there was a bould on the ground.	D 4 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
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11:15 Tracer personnel takes brack for Luncth. EP. comes back to the Base.	7,	JA leaves the site to pick up Zero Grade Air for G.C.	The got Back to the Base Tagget Personnel is working at site No 2. No major hits were detected at this site	so far. They installed 5 points at site No. 2.	The two points that were moved from Site No 3 to Site No 3 did not presented any hits. No major concentrations or no significant hits were
inel ta	11:45 Break for Lunch 12:15 Book from Lunch	re site	The got Back to the Base tagget personnel is working at site No 2. No major home detected at this site	installe 2	The two points that were moved from Site No 3 to Site No 16 not presented any hits No major concentrations or no significant hits were
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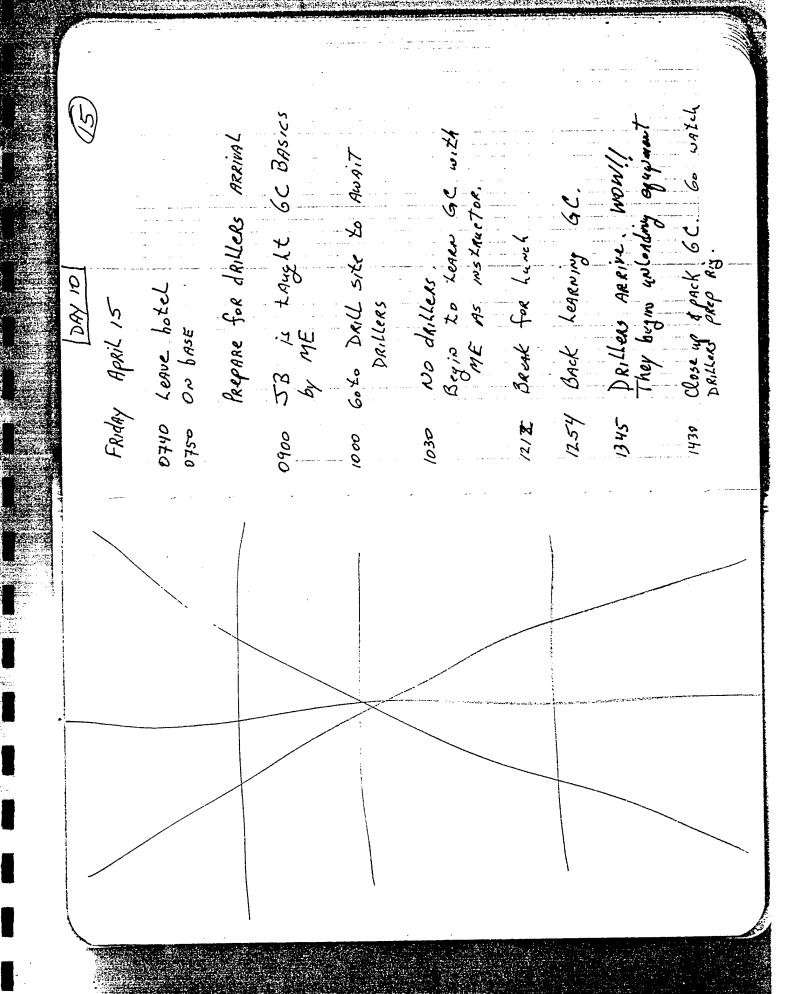
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1649 Shoot BTEX STD

Analysis # 10 Int. Temp 28 6Ain 2

BYEK STD

MTBE 1 H41.6 Hb
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BENZENE 3 1.954 PPM
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MPXYLENE 6 1.424 PPM
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Shut down 6C Go to Res 12 DRILLERS having thouble with pipe.
ODEC has not been deilling very well.

HELF DRILLERS WITH AY

Rep ALRS

BIT WERE CLOSSED WITH CLAY. (31)

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9/06/93	0645 EP+MR ON SME	0705 MUDELLERS ON SITE	0715 DECON SETUP	0820 SAFETY RDICE !! [/	•	1230 LUVEH	•	DO CHAIN OF CUSTION	1630 MR, JA, EP OFF5/JE	Mary Sodian 9/21/52		MR does	2030 HRS WORK	<u></u>	COS HRS	

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	1327 BTEX STD Amahysis # 16 Int Temp 24 6Air	MTBE BENZENE 3 TOLUENE 4 MPXYKENE 5 MPXYKENE 6 0 XYKENE 7	1340 Go to Riy site Get sample of soil the disposal pike check background to

1530 Leave b

	ामा (वेटकार) है है के अवस्था पर स्थापन की किस्सार स्थापन के प्रतिकृति के स्थापन की स्थापन की की स्थापन की स्थापन की स्थापन की स्थापन की स्थापन की स्थापन की स्था	and a second second of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the secti			
23		0/EX 2/0			
18 APRIL	3	6C 370 140 87EX		CALibratio	3.72.
23	herve hoteh On Base Check water	Set of 6C CALIBRATE BTEX MTDE 10 m R	AIR FLOW 1/1	30 CALIBRATION ANALYSIS # 1 INTTEMP 20 GRIN 2	- MM = MM
SA tur DAY	1. 0	0405	. 0	0930 CAK ANALYS! INTTEM CAIN	3 3 2 2 2 2 3 3 5 3 5 5 5 5 5 5 5 5 5 5
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1005 60 to dirt disposal pile		CALIBRAZION	1 1,9 1020 PILE DIRT C Soil Ut.: 10g		3 2.7 Int. Temp 21	4 1.7 GAIR 2 RLE DIRL C	711	6 2,4 Lunk	7 714.9 TOLUENE 3 1858 PP 6		Benzeme	1030 P.LE DIRT D	DANALYSIST 5 (SOIL WI: 12,3)			RTEX STD	40K	ر م	٧,			
2002	21		-	7	М	7	b	9	<i>‡</i>	hiba ARI	CAL, BRATE to	. •	57b	M	12			i	• •	1	4 M	1 W = 1
0940 CALIBABLION ANALYSIS # Z	lut. Temp	6815 2	N Z Z	CANK	2 2 X	25	awk	ank	2/~"	Set	CALI		OPSS BYEK	ANALYSIS #	INT. Temp ;	GAir 2		E SK	ZYR II	! ? -	Benzene	Benzene

63	Brex Stb		644.2 ppb 644.2 ppb 644.2 ppb 648.3 ppb	-02 for deiling
	1100 BTEX 570 ANALYSIS # 8 INT. TEMP 22 6912	ANK MTBE BENZENE 3	ETHYL BENZENE S MP XYLENE 6 O XYLENE 7	1110 60 to 72-
	Soil wt.: 12g	3,5 9.391 ppb	Reshoot PLE Dirt B Rechoot	9'/
	1040 PILE DIRT B ANALYSIS # 6 INK. Temp 22 GAIN 2	unk MP xylene 4	loso Pile Dirt B. Analysis # 7 Int Temp 22 GAIN Z. Pil	~

5+88t DR166 7'7 22'

						<i>≠</i>	
65)	8 -02 30	2		A,A 4,0		BTEX 570 2.7 1,293 pm	
1300 P2-02 3D	2 4 6		130 Aig this More 1810 Aig More 1810 Aig 11		1316 BYEX STD ANALYSIS # 12		EZE ENERE ENERE
	22 Pans 102	862,0	3 8,331 Mb 4 20.79 PPb	517.e welding CASING	Begin drilling	TAKE CUEELMYS SAMPLE PR-02 30' Return to GC Room t Test samole	
	02 5/5 #	UNK TORUENE	ETHYL BENZENE MP XYLENE	1240 At daill site priller is web	_	1250 take cuttings PR-02 30 Return to Gl	

25
brothe
CAL
1325

PZ-02 30 RESHORT Soil wt.: 145 PZ-02 30 Reshoot ANALYSIS # INX. TOMP 6A12 1330

	-	8		: &	8
2.2	14.00	40.72	30.15	45.18	90.21
-	2	lu	#	5	e
unk	Benzene	Toluene	EThylbenzene	MPXYlene	o xylene

Go to Ris 1335

Beyin dailling 40'755' interval TAKE SAIMPLE PZ-02 45 1352 1342

Paepore sample

Gote GC ROOM

1400 PZ-02 45 AMALYSIS # 14 Not. Temp 24

5011 wt.: 201

6410

LLNK ETHYL bonzewe

1412 Return to Rig

Beyin deilling 55' > 70' enterual 1430

TAKE SAMPLE 72-02 60 Return to GC 200m to

PREPARE SAMY

 	Wend ING C	p	1603 Begin
	Soil wt.: 20g		PZ-02 60
PZ-02 60	ANALysis # 15	that Temp 24	6Ain 2

200n

1455 Return to Rig welding casing

1510 Begin delling 70'-85' internal 1515 TAKE SAMPLE PZ-OZ 75 prepare sample Return to 66 com

Soil wt.: 205 PB-02 75 1527 PZ-02 75 ANALYSIJ# 16 Last Temp

1535 REKURN LO RIG スさス

drilling 85'> 100 interval

DECIDE NOT to SAMPLE TAKE SAMPLE BELOZAD 10 Kerval 1610 Goto GC Room to sh

WS BACK At Rig

At 96. NO RELURNS. 4ke Lost circulation

Thy to pull top pipe 4 1 th is stack.

Wow it is blaning sa Like the dichems

DRILL down to 98

1700 DRILLERS shut

Begin programing & cohibrating 6c. Build BTEX MTBE STD ARRIVAL OF HERMIT UNTIL MAY 6 delay Chris (Euroneut operator) 13 AVAILABLE & dump drums TURN ON & SET UP 6C. CAL IN-SIEU. Must wait 0900 EST. We want to A.R FLOO @ 11 ml, BILL MCLEGRY NOT in DRILLERS ARRIUM 25 APRIL DAY 20 AVAILASSE # 0 0745 Leave Hotel 0800 On BASE . 71.05 MONDAY 0000 0180 5180 1715 At hotel Legue BASE

10ml H20 548 BYEX

SAR MTBE

BYEX MTOE STD

			7			
£+3	115 in teruph	orut &	oil in it that		144.0 6.164 195 14.56 196 24.45 196 7.3 196	
••••	1000 Go to Rig Drilling 100 >	lick con Sect s	the vegatable o the drillers use the drill b, Z.	1108 Veg 0.2 ANALYSICH 3 12t Temp 26 6AIN 2	JOHNENE TokuEne 1 TokuEne 2 MP Xylene 4 WAR	
	CALIBRAKION	641.1 675.1 3.4 2.9	2.3	Ş	275 27.7 Mdd 250.1 Mdd 250.1 Mdd 25.25.7 88.1.2 80.0 5.22.7	6:
	- K 2	- NM 7	b o	Set hibrary CALIBRATE to Borzer Path BTEX STD whysis #2	2 BYEX S 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4
	0938 CAL, brakior Analyiss # Int. Temp GAIN	ush ush ush ush	ς.υ γ γ	Set CALIBA O954 CALIB B7 Analysis t	Lak CAIN WAK MTBE BENZENC TOKY ENC ETHY L BENZENCE	MP XYKenz

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%	
RISEN	•
544	7 2
Int. Temp has R.	107. 100
	B
771	

1125 BYEK SYD ANALYSIS * 4 INT TEMP 26 GAIN 2 BYEK-STD

			1
マン ス	-	3.4	
M:TBE	7	1.087	PPM
BENZENE	M	787.9	900
TOLUENE	7	4.124	900
ETHYLbenzene	Ы	657,2	900
arnyl benzene	9	1,282	Mad
MP XYLene	4	203.2	900
			•

CALIBRATE to BENZENE

1205 Begins dailling 130-7145' wkerual 1235 At 143 BLS (0.8 lumeh beeak) Lunch

			BYEK SYD	
57B	b	7 7	Ň	
1135 BYEX	ANALYSIS #	IND. Temp	6012	

	100	611	116	90	900	9/		cron				
35	1,327	9746	752,1	645,8	638.0	7776	· · · · · · · · · · · · · · · · · · ·	115'7130 Interest	Pick up next joint 4 wold			
								14,5	¥ 7.			
	~~~	~		<u>-</u> لم		- M	ر مر ا	<i>*</i>	7	#	128 845	
		V.	<b>&gt;</b>	<b>σ</b> ,	•	77	Y.	אוואי	Derz		82/	
]				うかるる	¥		Return to	HAVE DRILLED	dn y	CASA3.	ARE Q	
	พู	BEN Zerol	TOLLENE	ETHYLbonzen	me xxlewe	o xylene		HE	6,	ડૅ	4	
124	MT BE	BEN	T04	ETH	3	0	1145				mar.	

(77)		Byex syb	2.06	919.5 898.5 758.0 996 725.4 196	25
	1601 BTEX STD ANALUSIS # 7	1NK, Temp 25 6AIN 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GENZENE TOLUENE ETHYLBENZENE 5 MP XYLENE 5	1611 Shut down
	lding easing	45' -> 160' INLERVAL.	e for GC	5012 wh.: 30 g	127.8 5.2.38 ppb
1324 BACK ON BASE	Pick up wert joint Drillers Aire welding	335 Begin dailling 145'-> 160' interval	400 TD @ 159'315 GRAG SAMAPLE FOR GC	1415 PZ-02 160 18445346 1104. Temp Z6 6Air	unk mp xylene 3

to new site, 72-03.

Drillers nerves sire

6 60 to 72-02 to Take

water Level Reading Continue to move egui

Police AREA. Secure & wellherd with marked drum. Dump drums of soil, sweep up AREA Load & more egainments.

Return to Rig

1425

ANALYSIS TIME CALIBRATION Air Flow RATE: 11 ml1 Set-up, calibrate BLEX MTGE STD: DAY 21 Tuesday 26 APRIL 0821 CALIBRATION ANALYSIS # 1 INL. Temp 21 GAIN 2 leave hotel At BASE INEREASE 0300 Legre base Go to to FEDEX BOX At Hokel

1700

hh 91

0854 BTEX 57D ANALYSIS # 3 INT. Temp 22 6AIN 2	
CALIBRAKION	
OB40 CALIBRATION ANALYSIS Z INT. TEMP 22 GAIN Z	

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Set	CALL

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	999 996 909 909 909		. 20	oblem to his
) )	1.4 831.2 856.4 840.1 746.1 741.8	, o 7/	Rep	Seems
ねへれ		7	MRRIFE.	e having
7		1,5685.	GRS-GRS-GRS-GRS-GRS-GRS-GRS-GRS-GRS-GRS-	ers Are drill bid
2/49	UNK MTBE BENTENE TOLUENE ETHYLbenzene MP XYLENE O XYKENE	900 461	0915 DRILLE SX CL Whike for dr	1100 DRILLERS WITH d Serzed w

•	7	•	<u>بر</u>
	1140 At 10 BLS, (0-8 BLS INTERVAL)	Pick up west joint a weld	e.Asing

15 Done welding. Begin drilling 10'-> 25' Interval.

1228 Take soil sample PZ-03 15'

PRE PARE SAMPLE

PZ-03 15'
ANALYSS # 4 Soil Wh.: 20g
INT TEMP 23
6912 2 PZ-03 15

## DOTATON

1243 Go back to Rig

1300 hunch (0.6)

1350 Begin dailling 25'> 40' interval 1353 Take soil sample PZ-03 30'

1400 PZ-03 30 ANALYSIS# 5 SOIL W. Z. Z. Z. J. W. L. Temp AY PZ-03 30

unk -

1415 RELURN to Rig. Belg. WELding CASING

1430 Begin dailling 40'>55' interior

1435 TAKE SOIL SAMPLE 72-03 45'

Recolibrate GC

7		4						end out the second sound	
(S)		37EX 570	433.2	2,676 pm 429,1 pb		BYEX STD	890.6		Z.321 pm
	<b>V</b>	7	אבמא	NO	ALS 0	2 %	- 7	מצע	46
	ISOO BTEX ANALYSIS # INT. TOMP	and and	ask ask	Ethyl bewzene MP Xylene	1515 BTEX 3	int. Temp 2 CAIN	usk usk	42 × 73 × 33 × 33 × 33 × 33 × 33 × 33 × 3	estayl bourges
	Q x s		-	EN STD	2.45	1.065 pm	160. 7 pp	5x S7D	- · <del>-</del> · - · · · · · · · · · · · · · · · · ·
,	24 24 BYEK	Rus	STE	2 BYEK	- 1 m	1 e d t	g r+	Reshoot BYE	
Ats vary	GNAHYOS # TONE TEMP PAIN	ABORT RUN	1450 BTEX STD ANALYSIS # 7	6910.	unk 33 APBE unk	TOLUENE "NK ETHYL benzene	Oxylene unk mpxylene	Reshow	

1543 PZ-03 60

CALIBERTE to BENZER

Soil wh.: 20

R9 80-2d

6.581 Pps

1553 Return to

DRILLERS ARE PACKING UP FOR the day Hole is At FOR the day 70' 365.

lack up egang month

1600 heave site

Level Reading 1604 Jahre 31to

ANALYSIS # 11 Inst. Temp

スジス

MP XYLENE

10 CLENE

6212

lut. Temp

6816

1525 PZ-03 45 ANALYSIS # 10

- P2-03 45

2 x

Ethylbenzene MP XYKENE Benzene TOLUENE

16.12 pps 37.17 pps 27.39 pps 44.66 pps

Return to Rig 15 35

OXYLENE

Get SAMPLE PZ-03 60

PREPARE SAMPLE

	DAY 22 89	Lare hotel  Lare hotel  Set up GC, CALIBRAGE GC.  MAKE BTEX MTBE STD	ALR Flow Rate: 12 ml/nin BTEX STD: 10 ml Hzo 5 nl BTEX 5 nl MTBE	Go dump drums of Soil Drillers ARRIVE	0928 CALIBRATION AMALYSIS # 1 1NK. Temp 24 GAIN 2	2 4 435,7 3 2,5 4 2.5 5 1.4 6 2.9 7 874.5
		Wednesday 0748 Leg 0800 02 Se		0815 60 dum/ 0905 DRILLERS	ANALY INK. INK.	AR unt unt unt unt unt unt unt unt
A Company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the comp		<i>न्</i> )			·.	18.4 (8.4)
	Check day we	1630 Legue base 1643 At hoteh				Fork

76)		Will get soil sample for pext interval	1030 Deiller Lo 83' 815 Pick up next joint & word CASING	<b>A</b>	1109 Get soil sample 12-03 40	Paepare sample	
	CALIBARION NALYSIS 2 2. Temp 24 L. Temp 24 CALIBRARION	1 301.5 2 3.8.4 3	5.7 840.9 7.1 7.1 7.248.0	L, 60944	CALIBRATE to Benzeme	4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	B/EX S/D
	0944 CALIBAR ANALYSIS INY. Temp GAIN	15 x x x x x x x x x x x x x x x x x x x	u sent	Sex	CAL	1000 BTEX S Analysis INT. Temp	2180

733333

1,349
1,384
1,584
1,672
1,561

MTBE
BENZENE
TOLUGNE
ETHYL benzene
MP XYKENE
OXYKENE

90	4 /soil wt: 20g)	25	2 72-03 90
bz-03	ANALYSIS # 4 Soil	INT. Temp 25	6812
8///			

30.02 ps	50.14 pb	199 18.01
W	*	<b>\</b> ₃
EThyl bonzene	MP XYLENE	O Kylene

1130 Return to Rig DRILLED down to 10 98'315

Pick up ment intervals & weld casing

-5 Begin drilling 100'-> 115' interval TAKE soil sample 72-03 105

PREPARE SAMPOLE

(93)	Soil wt.: 20g	PZ-03 805	7.667 pp		AIR BLANK
20, 50, ed	Avakysis # 5	is comp	orene 2	AM BLANK ANALYISS # 6	lat. Temp 26 Gair 2
	SA 2007	(8E 6Air	ETHYL ben tene ETHYL ben ten	1220 ANAL	12t. 7

		(0.6
	30	Ach.
*	18	- 37 - 4
	Roturn	BREAK F
uok	1227	

1303 Ow 1895E
1930 Return to Rig

Pick up next joint & word casing

507 Begin dailling 145-7/60 interral

1524 TAKE SAMPLE PZ-03 1585

PRYPARE SAMPLE

30 PZ-03 155 Analysis # 7 Soil wt.: 229 wt. Temp d7 64in 2 PZ-03 155

9'99

ングス

Refallbrate due to

TALKed to Ef. Spiel it was not important since there was no reading or last sample.

1545 BTEX STD ANALYSIS # 8 INT. Temp 27 GAIN 2

87EX 570

unk
myBE
BENTENE
BENTENE
3 982.0 ppb
ToLuene
5 846.6 ppb
ETHYLbenTene
6 1.662 ppm
mp xykene
7 261.6 ppb

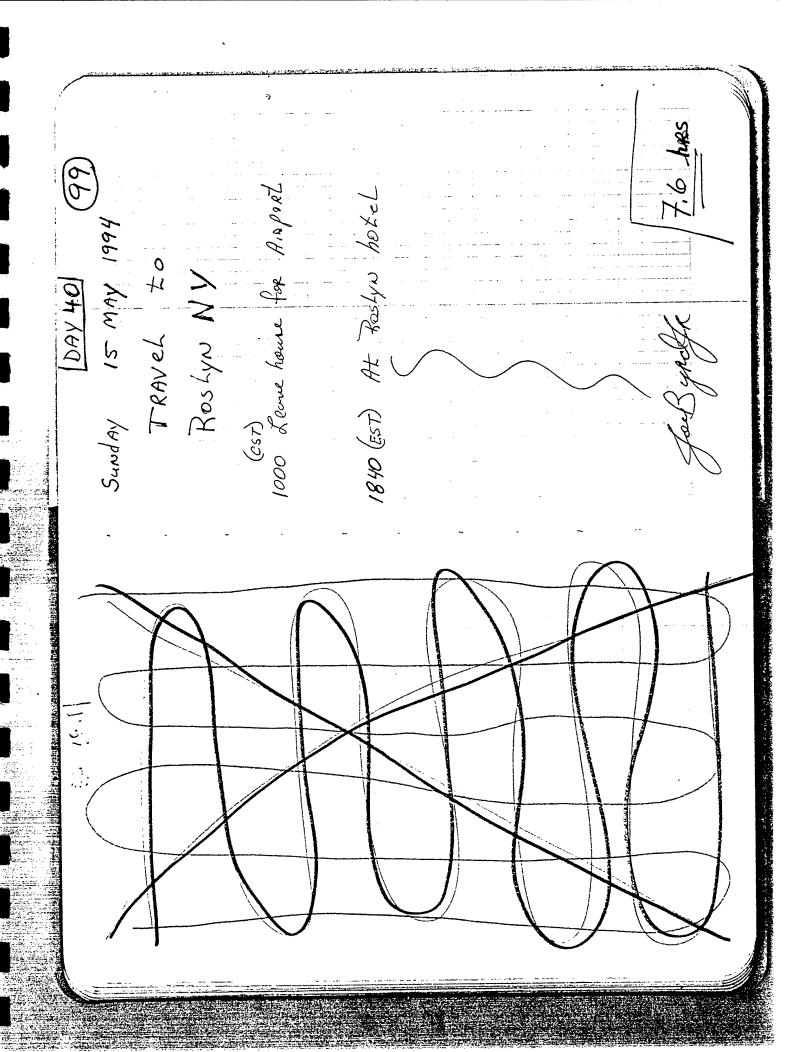
1600 1854 1 Down GC.

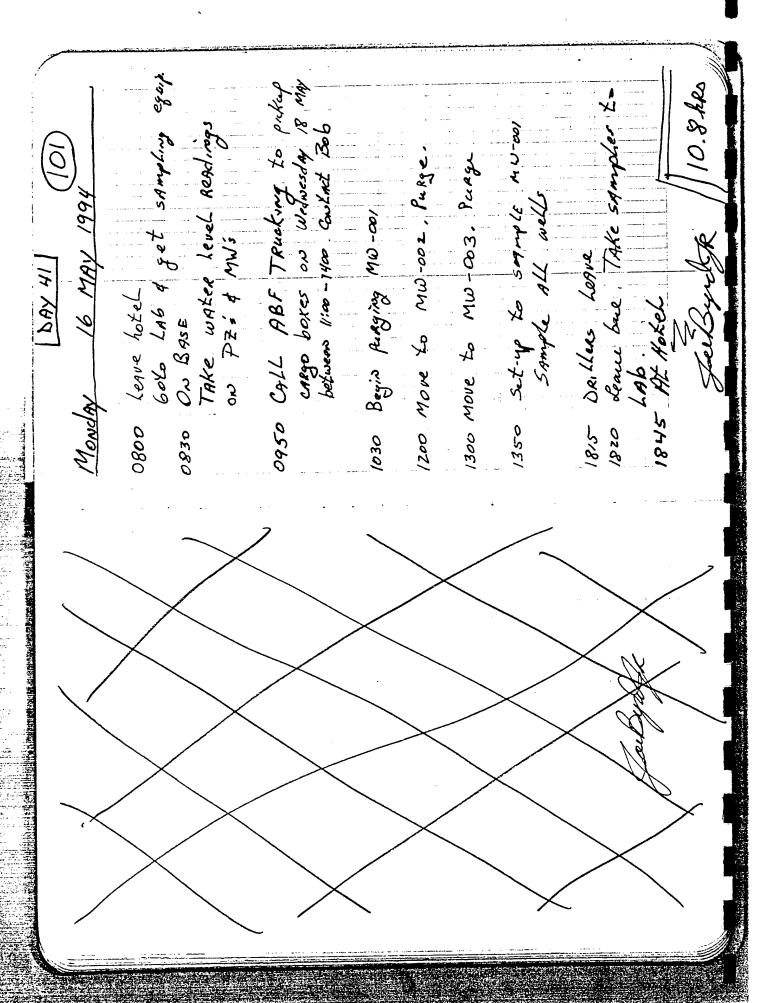
DRILLING is done at site
P2-03. Begin Rigging down

EP & JB SURVEY IN SIXES PZ-01, PZ-02, PZ-03

1630 DRILLER Legar STE

	٠		er in a description				um 11 dan 94	 RAVEL	11111
(46)			3	9				 3 34	
23	APRIL		76%	02, 20				10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DAY X	7	hatel	W P Co	<i>s s s s s s s s s s</i>	base			 Bro D	
	Thursday	45 heave	Cherl	0-20	oo hese 10 At				
	L: The	2740			0460	<u>.</u> .	 _		_
	ter heve	503						hes	
	whe wal	5/ 2						6	
,	58 74	7, 20-59, 10-59	ЬАЗЕ	oxel				red Gr	
	FOE	7 620 0 2 - 6	Legue base	At hokel	\ <u></u>			god 3yrd Gr	
			1715	1730				<b>)</b>	4





(03)	0905 MW-001 ANMLYSIS # 2 INT. Temp 23 MW-001	4 w/k  9918 MW-002  AWALYSIS # 3  (20 mb 42)  102. Temp 22  69112 2 MW-002	unk EThylbenrue 2 0926 MW-003 AMALYSIS # 4 [20 mh 1/2] 102.7 cmp 22 102.7 cmp 22 64 in 2 mW-003	unk 1439 mVs
Taeschy 17 MAY 1994	Lear School	min GAS Over BTEX	work  work  work  work  work  work  work  work  work  work  or  sign  3.3  3.3  7.4  5.5  3.3  3.3	Set Library. CALIBRAKE to Toknown to Benzewe to Toknowe by MISTAKE.  Mikrake to Benzewe. Checks Out OK

			大
			BYEX
STD	b *	77	7
BTEX STD	ANALYSIS 3	lot. Temp	6 Air
0935			

128.4	956.7 ppb	1.046 ppm	Mad 1801	1.085 PP.M	w dd Iho'i
	7	М	<u>ب</u>	72	9
ank	Benzene	Tohyone	Ethylbenzene	MP-xyhene	O-Xyhone

Begin Chegring Room & packing boxes

60 to Retuen Ulter Nik Done at Air Weld. Return to BASE

TAKE Lunch (0,6)

ON BASE. Begin PREPPING FOR SLUY TEST. At MW COI. DO SLUY TEST Do shug Test 1200

15.04

more to

equipment to 745 Done at

herve base. 6 herve FEDEX. At Hokel

1755 1824 1840

Wednesday 18 MAY 1994  Wednesday 18 MAY 1994  1350 Lord Barrs and TRuck.  Share 2 Sampling Supplies  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  140 I soven bars  150 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  160 I soven bars  1			
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## APPENDIX G HRS DATA PACKAGE

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## PRELIMINARY ASSESSMENT (PA) SITE INSPECTION (SI) DATA REQUIREMENTS FOR FEDERAL FACILITY DOCKET SITES

## Roslyn ANGS, Roslyn, New York

- *1. Supply copies of all sampling data, on-site and off-site, including location map, detection limits (see definitions below), raw data sheets, QA/QC documents, date(s) sampled, analytical method(s) used, well or boring logs, and sampling technique(s).
- *2. Locate and identify on a map all known or suspected sources (see definition below). Supply all information about source(s) such as: dates of operation, use, or spillage; amounts of material deposited, stored, or spilled; dimensions of source(s); known or suspected hazardous substances (see definition below), etc.
  - *This information can be found in Section 4 of the work plan.
- *3. Provide a description of all aquifers beneath the site, including description of overlying materials, depth first encountered, thickness, and composition.
  - *This info can be found in Section 4.3.4 of the work plan.
- 4. For each source, choose one description from Table 1 that describes the groundwater contaminant. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.
  - None of the source descriptions from Table 1 apply to this particular site.
- 5. Provide the location of all drinking water wells in all aquifers beneath the site in a 4-mile radius from the site (property boundary) by HRS distance ring and locate the wells within a one-mile radius on a 7.5-minute topographic map. Provide information on depth of well(s), screening interval(s), depth of aquifer(s) encountered, population served for multiple wells (i.e., municipal system), provide the number of wells, location of all wells (regardless of 4-mile limit), average annual pumpage of each well (regardless of 4-mile limit), and total population served by system. Include information on all standby wells.

Three public supply wells in the Roslyn Water District are significant because of their proximity to the Station (Figure G.1). Wells N-5852 and N-4265 are located approximately 1,600 feet north-northwest and 1,000 feet northeast from the Station boundary, respectively. Well N-2400 is located approximately 1,800 feet south from the surface from the surface water retention basin (Nassau County No. 72) receiving surface water runoff from the Station property. Each of these wells are screened in the principle

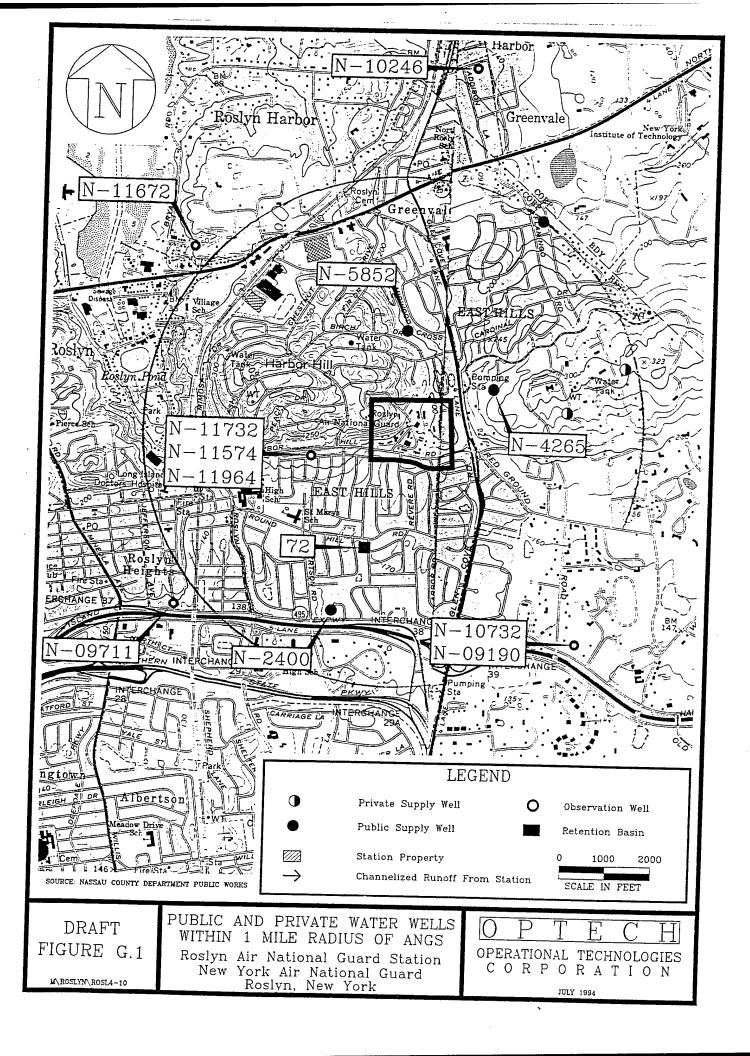


Figure G.1

aquifer and were drilled to total depths ranging between 439 and 490 FBLS. Approved water yield capacities for these wells range from 1,000 GPM to 1,200 GPM.

Seven observation wells in the vicinity of Roslyn ANGS were also located and are shown on Figure G.1. Of these wells, three are in the upper glacial aquifer (N-09711, N-10246, and N-11672), three are in the Magothy Aquifer (N-09190, N-10732, and N-11732), and one is in the Lloyd aquifer (N-11574). Historical well information, sampling information, and chemical examinations, (including chemical analyses for Volatile Organic Compounds) for these seven observation wells are found in Appendix B.

According to the U.S. Geological Survey Water-Supply Paper, approximately 66 public wells exist within a 4-mile radius of the site.

6. Provide information and location (on 7.5-minute topographic map) of wells within 4 miles that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.

According to the U.S. Geological Survey Water-Supply Paper, approximately 88 domestic wells exist within a 4-mile radius of the site. Two of these wells can be found within a 1-mile radius from the site. (Figure G.1)

7. Provide average number of persons per residence for county (or counties) that site is located in per the U.S. Census Bureau.

The average number of persons per residence for county is 2.94 people per household. (Source: Nassau County Clerk)

8. Identify and locate all surface water bodies within two miles of site, marking off the drainage routed (shown on 7.5-minute topographic map) from each source to applicable surface water bodies. Provide the average annual cubic feet per second flow for each surface water body within 15 miles downriver or radius from the point of probable entry into surface water. For lakes, provide information on inflow and outflow.

The drainage route from the site is shown on Figure G.2. Water from the site drains directly into a retention basin, not any other surface water bodies since there are no surface water bodies the site can drain into. The average annual cubic flow is 0 since there are no surface bodies of water downriver of the site. (Source: U.S. Department of the Interior Geological Survey, 1968)

9. For each source, choose one description from Table 2 that describes the surface water containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.

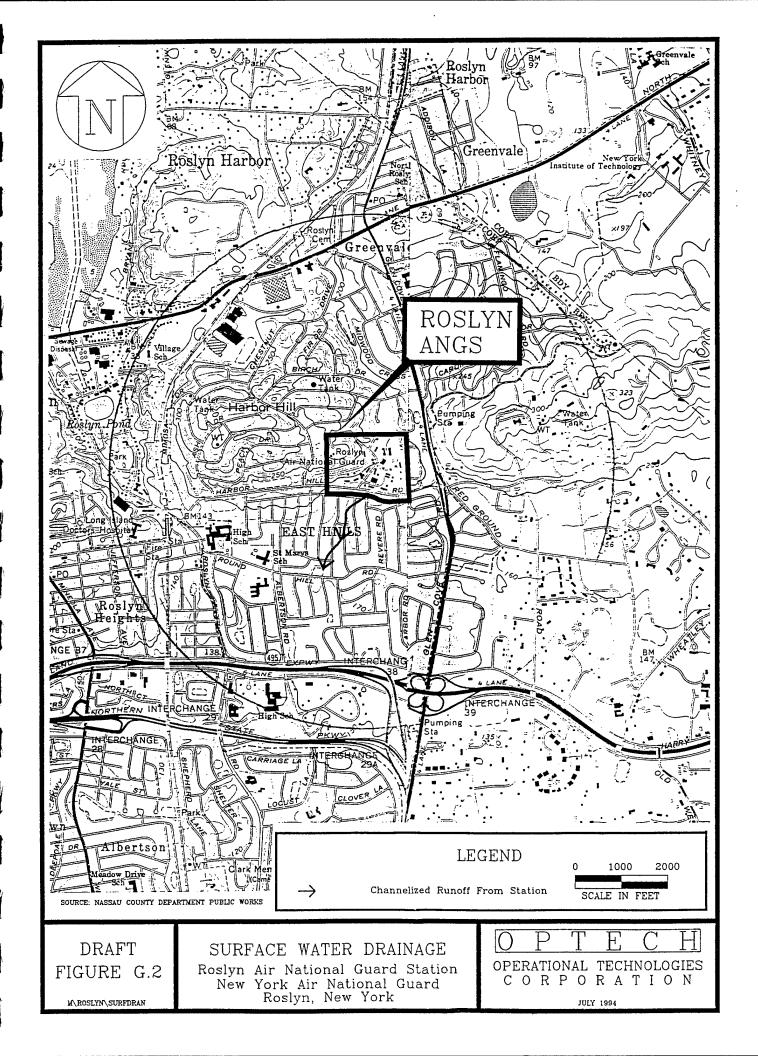


Figure G.2

The description form Table 2 that best describes the surface water containment is:

No evidence of hazardous substance migration from the source areas and: (a)

Neither of the following present: (1) maintained engineered cover, or (2)

functioning and maintained run-on control system and runoff management.

10. Provide the number of acres in each drainage basin.

This information is not yet available. The County of Nassau, Department of Public Works is working on acquiring this information at the present time. (Source: County of Nassau, Department of Public Works)

11. From Table 3, choose the predominant soil group (surface soil) which comprises the largest total area within each drainage area.

The best surface soil description from Table 3 is medium to coarse textured soils with moderately rapid to very rapid infiltration rates.

12. Provide the two-year, 24-hour rainfall.

The two-year, 24-hour rainfall for the Roslyn area is 3.07" on December 11, 1992. (Source: La Guardia AP- Climatology Department)

13. From Table 4, choose the floodplain category of each source (supply FEMA floodplain map) and determine if each source meets the criteria from Table 5 (engineer's certification).

The floodplain category from Table 4 that best describes this area is:

None of the above.

14. Provide the location of all drinking water intakes within 15 downstream miles (rivers) or 15-mile radius (lakes, bays, etc.). Provide information on population served. For multiple intakes (i.e., municipal system), provide information on the number of intakes, location of all intakes (regardless of 15-mile limit), and total population served by system. Include information on all standby intakes.

This question does not apply to this area since surface water is not being used for the above purposes. (Source: Public Works)

15. Provide information and location of intakes within 15 miles downriver (radius in lake or bay) that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.

This question does not apply to this area since surface water is not used for the above purposes. (Source: Public Works)

16. Provide any surface water body 15 miles downriver (radius in lakes or bay) used for drinking water.

No surface water body is used for drinking purposes. (Source: Public Works)

17. Provide the average human food chain production (pounds per year) for each surface water body 15 miles downriver or 15-mile radius in lake.

This question cannot be answered for this site since it has not been calculated. (Source: Public Works)

18. Within a 4-mile radius from the site and 15 miles downriver, or radius in lake, identify all sensitive environments that exist. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.), multiple sensitive environments within a sensitive environment.

No sensitive environments exist within a 4-mile radius of the site. (Source: U.S. Department of the Interior Fish and Wildlife Service)

19. What is the linear frontage of all wetlands 15 miles downriver or 15-mile radius in lake?

Th linear frontage for all wetlands 15 miles downriver or 15-mile radius in lake is 0 since there are no rivers or lakes in the vicinity of the site. (Source: U.S. Department of the Interior Fish and Wildlife Service)

20. Provide the location and number of persons residing, working, attending school, or day care within 200 feet. This includes both the Air and Army Guard.

The average population within 200 feet of the site during the week is as follows:

$$Avg = 50$$

During Unit Training Assembly (UTA) weekends the population is approximately 340. (Source: Capt Larry Johnson, NYANG)

21. Identify all terrestrial sensitive environments that exist on-site. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.)

and locate each on a 7.5-minute topographic map. Note that there could be multiple sensitive environments within a sensitive environment.

No sensitive environments exist on site. (Source: U.S. Department of the Interior Fish and Wildlife Service)

22. For each source, choose one description from Table 8 that describes the accessibility to a human population. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.

The best description from Table 8 is:

Surrounded by maintained fence or combination of maintained fence and natural barriers.

- 23. Provide the total number of people in following distance rings from source(s)?
  - 0 1/4 mile
    This ring includes block #401, 403, 404, 405, 320, 319, 318, 301, 33, 302,304, 414, 409, 406, 405, 404, 402, 403, 120 and 119 with an approximate total population of 385.7.
  - 1/4 1/2 mile

    This ring includes block #403, 401, 404, 406, 405, 407, 408, 411, 320, 317, 316, 315, 318, 314, 313, 307, 306, 305, 202, 220, 221, 217, 222, 301, 303, 304, 101, 414, 415, 413, 412, 411, 410, 408, 409, 406, 404, 405, 407, 315, 316, 317, 201, 202, 205, 401, 402, 403, 120, 119, 118, 117, 108, 109, 110, 118, 116, 111, 112, 113, 114, 115, 101, 102 and 107 with an approximate total population of 2272.26.
  - 1/2 1 mile
    This ring includes track #3021.01, 3020, 3022, 3021.02, 3025.02 and 5177.05 with an approximate total population of 7466.38.
  - 1 2 miles
    This ring includes track #5177.01, 5175, 3020, 3014, 3016, 3019, 3009, 3022, 3021.01, 3023, 3024, 3025.01, 3034, 3021.02, 3025.02, 5177.05 and 5177.04 with an approximate total population of 10,041.06.
  - 2 3 miles
    This ring includes track #5176, 5174, 5175, 3020, 3010, 3014, 3016, 3017, 3019, 3009, 3022, 3023, 3031.02, 3024, 3033.01, 3033.02, 3036, 3034, 3037, 3025.01, 3021.02, 3038, 3040.01, 3039, 3040.02, 3021.01, 3025.02, 5177.06, 5177.05, 5177.04 and 5177.01 with an approximate total population of 47,083.10.

### • 3 - 4 miles

This ring includes track #5177.01, 5173.02, 5172, 5176, 5171.01, 5174, 5175, 3020, 3010, 3014, 3013, 3012, 3015, 3016, 3018, 3017, 3019, 3022, 3021.01, 3021.02, 3023, 3024, 3025.01, 3031.01, 3031.02, 3029, 3032.02, 3032.01, 3035, 3036, 3034, 3037, 4064, 4066, 3038, 3039, 3040.01, 3040.02, 3041, 3042.2, 3042.01, 3025.02, 5185.01, 5177.06, 5177.05 and 5177.04 with an approximate total population of 78,812.51.

Use 1990 Census data and/or actual house counts. Document how calculated.

24. For each source, choose one description from Table 9 that describes the gaseous containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]), as to why the source meets that description and not any other in the Table. From Table 10, choose the appropriate description of each source type. For each source, choose one description from Table 11 that describes that particulate containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.

None of the descriptions from tables 9-11 apply to this site. (Source: 1990 Census)

25. Provide the location and area (in acres) of all wetlands within 4 miles of the site.

The area of all wetlands within 4 miles of the site is approximately 270 acres. (Source: U.S. Department of the Interior Fish and Wildlife Wetlands Map)

26. Contact EPA Regional Office immediately if any radionuclides are present or suspected at site and supply all radiological information known to date.

No radionuclides are present or suspected at this site. (Source: Capt Larry Johnson, NYANG)

- 27. For all of the above information, use primary data source and supply two copies or specify where copies may be obtained.
- 28. Provide any removals or remedial actions taken place at site.

Seven Underground Storage Tanks have been removed as of September 1, 1993. A map showing the tanks has been included (See Figure G.2).

<u>Tanks</u>	<u>Size</u>	Product
18A	8,500	Diesel
18B	6,000	"
17B	5,000	#2 Fuel Oil
17C	5,000	II .
0016	1,000	11

016D 2,000 Gasoline009W 275 Waste Oil

Approximately 40 tons of contaminated soil is scheduled to be reacclimated through an Asphalt Batching Facility. (Source: Capt Larry Johnson, NYANG)

29. If information relevant to a question already has been provided to the EPA, your answer may precisely cite the previous submittal by title, date, page, and paragraph number rather than resubmitting the information. To assist in your efforts, also enclosed is a copy of EPA's draft Preliminary Assessment Guidance.

### Table 1

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No liner.

No evidence of hazardous substance migration from source area, a liner, and:

- (a) None of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner.
- (b) Any one of the three items in (a) present.
- (c) Any two of the items in (a) present.
- (d) All three items in (a) present plus a functioning groundwater monitoring system.
- (e) All items in (d) present plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, functioning groundwater monitoring system, <u>and:</u>

- (f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.
- (g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquid or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

### Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

No liner.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained. No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, <u>and:</u>

- (a) Liner.
- (b) Liner with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (c) Double liner with functioning leachate collection and removal system between liners, and functioning groundwater monitoring system.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

#### Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning, maintained, run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

- (a) Functioning and maintained run-on control and runoff management system.
- (b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.
- (c) Land treatment area maintained in compliance with 40 CFR 264.280.

#### Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No liner (or no essentially impervious base) under container area.

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, <u>and:</u>

- (a) Liner (or essentially impervious base) under container area.
- (b) Essentially impervious base under container area with liquids collection and removal system.
- (c) Containment system includes essentially impervious base, liquids collection system, sufficient contain 10 percent of volume of all containers, and functioning and maintained run-on control; plus functioning groundwater monitoring system, and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
- (d) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, single liner under container area with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (e) Same as (d) except: double liner under container area with functioning leachate collection and removal system between liners.

Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained runoff control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquid or solidification of remaining wastes and waste residues).

#### Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

Tank and ancillary equipment not provided with secondary containment, (e.g., liner under tank area, vault system, double wall).

No diking (or no similar structure) surrounding tank and ancillary equipment

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Tank and ancillary equipment provided with secondary containment.
- (b) Tank and ancillary equipment provided with secondary containment with leak detection and collection system.
- (c) Tank and ancillary equipment provided with secondary containment system that detects and collects spilled or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in timely manner, at least weekly inspection of tank and secondary containment system, all leaking or unfit-for-use tank systems promptly responded to, and functioning groundwater monitoring system.
- (d) Containment system has sufficient capacity to hold volume of all tanks within tank containment area and to provide adequate freeboard, single liner under that containment area with functioning

leachate collection and removal system below liner, and functioning groundwater monitoring system.

(e) Same as (d) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

#### Table 2

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No evidence of hazardous substance migration from source areas and:

- (a) Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.
- (b) Any one of the two items in (a) present.
- (c) Any two of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system, or (3) liner with functioning leachate collection and removal system immediately above liner.
- (d) All items in (c) present.
- (e) All items in (c) present, plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, and:

- (f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.
- (g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquids or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

#### Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained. No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

- (a) No liner.
- (b) Liner.
- (c) Liner with functioning leachate collection and removal system below liner.
- (d) Double liner with functioning leachate collection and removal system between liners.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

#### Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning and maintained run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

- (a) Functioning and maintained and maintained run-on control and runoff management system.
- (b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.
- (c) Land treatment area maintained in compliance with 40 CFR 264.280.

#### Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area and container area surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Essentially impervious base under container area with liquids collection and removal system.
- (b) Containment system includes essentially impervious base, liquids collection system, sufficient capacity to contain 10 percent of volume of all containers, and functioning and maintained run-on control; and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
- (c) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, and single liner under container area with functioning leachate collection and removal system below liner.
- (d) Same as (c) except: double liner under container area with functioning leachate collection and removal system between liners. Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained run-on control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

#### Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

No diking (or no similar structure) surrounding tank and ancillary equipment.

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area and tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, <u>and:</u>

- (a) Tank and ancillary equipment provided with secondary containment (e.g., liner under tank area, vault system, double wall) with leak detection and collection system.
- (b) Tank and ancillary equipment provided with secondary containment system that detects and collects spiked or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in a timely manner, at least

weekly inspection of tank and secondary containment system, and all leaking or unfit-for-use tank systems promptly responded to.

(c) Containment system has sufficient capacity to hold total volume of all tanks within the tank containment area and to provide adequate freeboard, and single liner under tank containment area with functioning leachate collection and removal system below liner.

(d) Same as (c) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

# Table 3 Surface Soil Description

Coarse-textured soils with high infiltration rates (for example, sands, loamy sands).

Medium-textured soils with moderate infiltration rates (for example, sandy loams, loams).

Moderately fine-textured soils with low infiltration rates (for example, silty loams, silts, sandy clay loams).

Fine-textured soils with very low infiltration rates (for example, clays, sandy clays, silty clay loams, clay loams, silty clays); or impermeable surfaces (for example, pavement).

## <u>Table 4</u> Floodplain Categories

Source floods annually. Source in 10-year floodplain. Source in 100-year floodplain. Source in 500-year floodplain. None of the above.

# Table 5 Flood Containment

Documentation that containment at the source is designed, constructed, operated, and maintained to prevent a washout of hazardous substances by the flood being evaluated (see floodplain category).

### <u>Table 6</u> Sensitive Environments

Critical habitata for Federal designated endangered or threatened species.

Marine Sanctuary.

National Park.

Designated Federal Wilderness Area.

Areas identified under Coastal Zone Management Actb.

Sensitive areas identified under National Estuary Program^c or Near Coastal Waters Program^d.

Critical areas identified under the Clean Lakes Programe.

National Monument^f.

National Seashore Recreational Area.

National Lakeshore Recreational Area.

Habitat known to be used by Federal designated or proposed endangered or threatened species.

National Preserve.

National or State Wildlife Refuge.

Unit of Coastal Barrier Resources System.

Coastal Barrier (undeveloped).

Federal land designated for protection of natural ecosystems.

Administratively Proposed Federal Wilderness Area.

Spawning areas criticals for the maintenance of fish/shellfish species within river, lake, or coastal tidal waters.

Migratory pathways and feeding areas critical for maintenance of anadromous fish species within river reaches or areas in lakes or coastal tidal waters in which the fish spend extended periods of time.

Terrestrial areas utilized for breeding by large or dense aggregations of animalsh.

National river reach designated as Recreational.

Habitat known to be used by State designated endangered or threatened species.

Habitat known to be used by species under review as to its Federal endangered or threatened status.

Coastal Barrier (partially developed).

Federal designated Scenic or Wild River.

State land designated for wildlife or game management.

State designated Scenic or Wild River.

State designated Natural Areas.

Particular areas, relatively small in size, important to maintenance of unique biotic communities.

State designated areas for projection or maintenance of aquatic life.

^bAreas identified in State Coastal Zone Management plans as requiring protection because of ecological value.

National Estuary Program study areas (Subareas within subareas) identified in Comprehensive Conservation and Management Plans as requiring protection because they support critical life stages of key estuarine species (Section 320 of Clean Water Act, as amended).

^dNear Coastal Waters as defined in Sections 104(b)(3), 304(1), 319, and 320 of Clean Water Act, as amended.

*Clean Lakes Program critical areas (subareas within lakes, or in some cases entire small lakes) identified by State Clean Lake Plans as critical habitats (Section 314 of Clean Water Act, as amended).

fUse only for air migration pathway.

ELimit to areas described as being used for intense or concentrated spawning by a given species.

^hFor the air migration pathway, limit to terrestrial vertebrate species. For the surface water migration pathway, limit to terrestrial vertebrate species aquatic or semiaquatic foraging habits.

Areas designated under Section 305(a) of Clean Water Act, as amended.

### <u>Table 7</u> Terrestrial Sensitive Environments

Terrestrial critical habitat^a for Federal designated endangered or threatened species.

National Park.

Designated Federal Wilderness Area.

National Monument.

Terrestrial habitat known to be used by Federal designated or proposed threatened or endangered species.

National Preserve (terrestrial).

National or State Terrestrial Wildlife Refuge.

Federal land designated for protection of natural ecosystems.

Administratively proposed Federal Wilderness Area.

Terrestrial areas utilized for breeding by large or dense aggregations of animals^b.

Terrestrial habitat known to be used by State designated endangered or threatened species.

Terrestrial habitat known to be used by species under review as to its Federal designated endangered or threatened status.

State lands designated for wildlife or game management.

State designated Natural Areas.

Particular area, relatively small in size, important to maintenance of unique biotic communities.

^aCritical habitat as defined in 50 CFR 424.02.

^aCritical habitat as defined in 50 CFR 42.

bLimit to vertebrate species.

### <u>Table 8</u> Area of Observed Contamination

Designated recreational area.

Regularly used for public recreation (for example, fishing, hiking, softball).

Accessible and unique recreational area (for example, vacant lots in urban area).

Moderately accessible (may have some access improvements - for example, gravel road), with some public recreation use.

Slightly accessible (for example, extremely rural area with no road improvement), with some public recreation use. Accessible, with no public recreation use.

Surrounded by maintained fence or combination of maintained fence and natural barriers.

Physically inaccessible to public, with no evidence of public recreation use.

## Table 9 Gas Containment Description

All situations except those specifically listed below.

Evidence of biogas release.

Active fire within source.

Gas collection/treatment system functioning, regularly inspected, maintained, and completely covering source. Source substantially surrounded by engineering windbreak and no other containment specifically described in this table applies.

Source covered with essentially impermeable, regularly inspected, maintained cover.

Uncontaminated soil cover >3 feet:

Source substantially vegetated with little exposed soil.

Source lightly vegetated with much exposed soil.

Source substantially devoid of vegetation.

Uncontaminated soil cover  $\geq 1$  foot and  $\leq 3$  feet:

Source heavily vegetated with essentially no exposed soil.

Cover soil resistant to gas migration^a.

Cover soil type not resistant to gas migration^a or unknown.

Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration^a.

Other.

Uncontaminated soil cover <1 foot:

Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration^a.

Other.

Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.

Source consists solely of intact, sealed containers:

Totally protected from weather by regularly inspected, maintained cover.

Other.

## Table 10 Source Type

Active fire area.

Burn pit.

Containers or tanks (buried/belowground):

Evidence of biogas release.

No evidence of biogas release.

^{*}Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

Containers or tanks, not elsewhere specified.

Contaminated soil (excluding land treatment).

Landfarm/land treatment.

Landfill:

Evidence of biogas release.

No evidence of biogas release.

Pile:

Tailings pile.

Scrap metal or junk pile.

Trash pile.

Chemical waste pile.

Other waste piles.

Surface impoundments (buried/backfilled):

Evidence of biogas release.

No evidence of biogas release.

Surface impoundment (not buried/backfilled):

Dry.

Other.

Other types of sources, not elsewhere specified.

## Table 11 Particulate Containment Description

All situations except those specifically listed below.

Source contains only particulate hazardous substances totally covered by liquids.

Source substantially surrounded by engineered windbreak and no other containment specifically described in this table applies.

Source covered with essentially impermeable, regularly inspected, maintained cover.

Uncontaminated soil cover >3 feet:

Source substantially vegetated with little or no exposed soil.

Source lightly vegetated with much exposed soil.

Source substantially devoid of vegetation.

Uncontaminated soil cover  $\geq 1$  foot and  $\leq 3$  feet:

Source heavily vegetated with essentially no exposed soil:

Cover soil type resistant to gas migration^a.

Cover soil type not resistant to gas migration^a.

Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration. Other.

Uncontaminated soil cover <1 foot:

Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration.

Other

Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.

Source consists solely of containers:

All containers contain only liquids.

All containers intact, sealed, and totally protected from weather by regularly inspected, maintained cover.

All containers intact and sealed.

Other.

^{*}Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

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